

Dr. Rebecca Goolsby  
Program Officer, Code 34  
Office of Naval Research

Date: September 11, 2018

Sub: Budget modification request for Grant N00014-17-1-2605

Dear Dr. Goolsby:

We have leftover money in the postdoctoral fellow salaries budget line because two of the postdoctoral fellows have accepted faculty positions. Given the short time period left in the project (i.e., less than 4 months), it will be infeasible to hire replacements on these positions. Therefore, we propose to use the leftover money from postdoctoral fellow salaries budget line and redistribute throughout the budget, as follows:

Leftover money from postdoctoral fellow salaries: (b) (4)

Redistributed to:

GA Salaries	(b) (4)
GA Tuition and health insurance	
Academic Release Time for Fall 2018 for PI: Nitin Agarwal	
Travel (International)	
Materials and supplies	

PI Agarwal requests half month academic release time during Fall 2018 to work on the integration aspects of Blogtrackers and YouTubeTracker applications.

Please note that redistribution of postdoctoral faculty released appropriate fringe costs that were also adjusted throughout the budget. Increasing tuition and health insurance for the graduate students reduced overall indirect cost.

Please let us know if you need further information.

Sincerely,

Nitin Agarwal, PI  
University of Arkansas – Little Rock

## FDP Cost Reimbursement Research Subaward Agreement

Federal Awarding Agency: Office of Naval Research (ONR)

Pass-Through Entity (PTE):

University of Arkansas at Little Rock

Subrecipient:

Carnegie Mellon University

PTE PI: Dr. Nitin Agarwal

Sub PI: Kathleen Carley

PTE Federal Award No: N00014-17-1-2605

Subaward No: 253238-18CMU

Project Title: Developing Novel Socio-computational Methodologies to Analyze Multimedia-based Cyber Propaganda Campaigns

Subaward Period of Performance (Budget Period):

Start: 06/01/2017

End: 12/31/2018

Amount Funded This Action (USD): \$ 225,000.00

Estimated Project Period (if incrementally funded):

Start:

End:

Incrementally Estimated Total (USD): \$

### Terms and Conditions

1. PTE hereby awards a cost reimbursable subaward, as described above, to Subrecipient. The Statement of Work and budget for this Subaward are as shown in Attachment 5. In its performance of Subaward work, Subrecipient shall be an independent entity and not an employee or agent of PTE.
2. Subrecipient shall submit invoices not more often than monthly and not less frequently than quarterly for allowable costs incurred. Upon the receipt of proper invoices, the PTE agrees to process payments in accordance with this Subaward and 2 CFR 200.305. All invoices shall be submitted using Subrecipient's standard invoice, but at a minimum shall include current and cumulative costs (including cost sharing), Subaward number, and certification, as required in 2 CFR 200.415 (a). Invoices that do not reference PTE Subaward number shall be returned to Subrecipient. Invoices and questions concerning invoice receipt or payments shall be directed to the party's Financial Contact, shown in Attachment 3A.
3. A final statement of cumulative costs incurred, including cost sharing, marked "FINAL" must be submitted to PTE's Financial Contact, as shown in Attachment 3A, not later than 60 days after the Project Period end date. The final statement of costs shall constitute Subrecipient's final financial report.
4. All payments shall be considered provisional and are subject to adjustment within the total estimated cost in the event such adjustment is necessary as a result of an adverse audit finding against the Subrecipient.
5. Matters concerning the technical performance of this Subaward shall be directed to the appropriate party's Principal Investigator as shown in Attachments 3A and 3B. Technical reports are required as shown in Attachment 4.
6. Matters concerning the request or negotiation of any changes in the terms, conditions, or amounts cited in this Subaward, and any changes requiring prior approval, shall be directed to each party's Authorized Official Contact, as shown in Attachments 3A and 3B. Any such change made to this Subaward requires the written approval of each party's Authorized Official, as shown in Attachments 3A and 3B.
7. The PTE may issue non-substantive changes to the Period of Performance and budget Bilaterally. Unilateral modification shall be considered valid 14 days after receipt unless otherwise indicated by Subrecipient when sent to Subrecipient's Authorized Official Contact, as shown in Attachment 3B.
8. Each party shall be responsible for its negligent acts or omissions and the negligent acts or omissions of its employees, officers, or directors, to the extent allowed by law.
9. Either party may terminate this Subaward with 30 days written notice to the appropriate party's Administrative Contact, as shown in Attachments 3A and 3B. PTE shall pay Subrecipient for termination costs as allowable under Uniform Guidance, 2 CFR 200, or 45 CFR Part 75 Appendix IX, as applicable.
10. By signing this Subaward, including the attachments hereto which are hereby incorporated by reference, Subrecipient certifies that it will perform the Statement of Work in accordance with the terms and conditions of this Subaward and the applicable terms of the Federal Award, including the appropriate Research Terms and Conditions ("RTCs") of the Federal Awarding Agency, as referenced in Attachment 2. The parties further agree that they intend this Subaward to comply with all applicable laws, regulations and requirements.

By an Authorized Official of Pass-through Entity:

(b) (6)

Name: Steve McClellan

Date

01/23/2018

Title: Vice Chancellor for Finance

By an Authorized Official of Subrecipient:

Name:

Date

Title:





**Attachment 1**  
**Certifications and Assurances**

Subaward Number:

253238-18CMU

**Certification Regarding Lobbying (2 CFR 200.450)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief, that no Federal appropriated funds have been paid or will be paid, by or on behalf of the Subrecipient, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement in accordance with 2 CFR 200.450.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or intending to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the Subrecipient shall complete and submit Standard Form -LLL, "Disclosure Form to Report Lobbying," to the PTE.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

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**Debarment, Suspension, and Other Responsibility Matters (2 CFR 200.213 and 2 CFR 180)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief that neither the Subrecipient nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, in accordance with 2 CFR 200.213 and 2 CFR 180.

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**Audit and Access to Records**

Per 2 CFR 200.501- 200.521, Subrecipient certifies that it will provide notice of any adverse findings which impact this Subaward and will provide access to records as required by parts 2 CFR 200.336, 200.337, and 200.201 as applicable. If Subrecipient is not subject to the Single Audit Act, then Subrecipient will provide notice of the completion of any required audits and provide access to such audits upon request.

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**Program for Enhancement of Contractor Employee Protections (41 U.S.C 4712)**

Subrecipient is hereby notified that they are required to: inform their employees working on any federal award that they are subject to the whistleblower rights and remedies of the pilot program; inform their employees in writing of employee whistleblower protections under 41 U.S.C §4712 in the predominant native language of the workforce; and include such requirements in any agreement made with a subcontractor or subgrantee.

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The Subrecipient shall require that the language of the certifications above in this Attachment 1 be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

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**Use of Name**

Neither party shall use the other party's name, trademarks, or other logos in any publicity, advertising, or news release without the prior written approval of an authorized representative of that party. The parties agree that each party may use factual information regarding the existence and purpose of the relationship that is the subject of this Subaward for legitimate business purposes, to satisfy any reporting and funding obligations, or as required by applicable law or regulation without written permission from the other party. In any such statement, the relationship of the parties shall be accurately and appropriately described.

**Attachment 2**  
**Federal Award Terms and Conditions**

Subaward Number  
253238-18CMU

**Required Data Elements**

The data elements required by Uniform Guidance are incorporated in the attached Federal Award.

Federal Award Issue Date	FAIN	CFDA No.
08/17/17	N00014-17-1-2605	12.300

**This Subaward Is:**

☒ Research & Development ☒ Subject to FFATA

CFDA Title
Basic and Applied Scientific Research
Key Personnel Per NOA

**General Terms and Conditions**

By signing this Subaward, Subrecipient agrees to the following:

1. To abide by the conditions on activities and restrictions on expenditure of federal funds in appropriations acts that are applicable to this Subaward to the extent those restrictions are pertinent. This includes any recent legislation noted on the Federal Awarding Agency's website:  
[DoD interim implementation 2 CFR 1103 \(81 FR 78442\), and as applicable 32 CFR Chapter I, Subchapter C, DoD Grant and Agreement Regulations, other than parts 32 and 33.](#)
2. 2 CFR 200
3. The Federal Awarding Agency's grants policy guidance, including addenda in effect as of the beginning date of the period of performance or as amended found at:  
<http://www.onr.navy.mil/contracts-grants.aspx>
4. Research Terms and Conditions, including any Federal Awarding Agency's Specific Requirements found at:  
<http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/~media/Files/Contracts-Grants/docs/DoD-Research-Terms-Conditions-JUL2016.ashx> except for the following :
  - a. No-cost extensions require the written approval of the PTE. Any requests for a no-cost extension shall be directed to the Administrative Contact shown in Attachment 3A, not less than 30 days prior to the desired effective date of the requested change.
  - b. Any payment mechanisms and financial reporting requirements described in the applicable Federal Awarding Agency Terms and Conditions and Agency-Specific Requirements are replaced with Terms and Conditions (1) through (4) of this Subaward; and
  - c. Any prior approvals are to be sought from the PTE and not the Federal Awarding Agency.
  - d. Title to equipment as defined in 2 CFR 200.33 that is purchased or fabricated with research funds or Subrecipient cost sharing funds, as direct costs of the project or program, shall vest in the Subrecipient subject to the conditions specified in 2 CFR 200.313.
  - e. Prior approval must be sought for a change in Subrecipient PI or change in Key Personnel (defined as listed on the NOA).
5. Treatment of program income: Additive

This section intentionally left blank

**Special Terms and Conditions:**

**Copyrights:**

Subrecipient Grants to PTE an irrevocable, royalty-free, non-transferable, non-exclusive right and license to use, reproduce, make derivative works, display, and perform publicly any copyrights or copyrighted material (including any computer software and its documentation and/or databases) first developed and delivered under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

Subrecipient grants to PTE the right to use any written progress reports and deliverables created under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its Federal Award.

**Data Rights:**

Subrecipient grants to PTE the right to use data created in the performance of this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

**Data Sharing and Access** (Check if applicable):

☐ Subrecipient agrees to comply with the Federal Awarding Agency's data sharing and access requirements as reflected in the NOA (or in the special terms below) and the Data Management/Sharing Plan submitted to the Federal Awarding Agency and attached.



**Promoting Objectivity in Research (COI):**

Subrecipient must designate herein which entity's Financial Conflicts of Interest policy (COI) will apply: Subrecipient

If applying its own COI policy, by execution of this Subaward, Subrecipient certifies that its policy complies with the requirements of the relevant Federal Awarding Agency as identified herein: ONR - BAA#N00014-16-R-BA01

Subrecipient shall report any financial conflict of interest to PTE's Administrative Representative or COI contact, as designated on Attachment 3A. Any financial conflicts of interest identified shall, when applicable, subsequently be reported to Federal Awarding Agency. Such report shall be made before expenditure of funds authorized in this Subaward and within 45 days of any subsequently identified COI.

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**Work Involving Human or Vertebrate Animals** (Select Applicable Options)

☒ No Human or Vertebrate Animals

This section left intentionally blank.

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**Human Subjects Data** (Select One) Not Applicable

This section left intentionally blank

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**Additional Terms**

**Attachment 3A**  
**Research Subaward Agreement**  
**Pass-Through Entity (PTE) Contacts**

Subaward Number:

253238-18CMU

**PTE Information**

Entity Name: University of Arkansas at Little Rock

Legal Address: 2801 S. University Avenue  
Little Rock, AR 72204-1000

Website: www.ualr.edu

**PTE Contacts**

Central Email: orsp@ualr.edu

Principal Investigator Name: Dr. Nitin Agarwal

Email: nxagarwal@ualr.edu

Telephone Number: 501-683-7155

Administrative Contact Name: Sharon Kaufman, Associate Director, ORSP

Email: sekaufman@ualr.edu

Telephone Number: 501-569-3246

COI Contact email (if different to above):

Financial Contact Name: Gayle Lenard, Associate Director, ORSP

Email: gxlenard@ualr.edu

Telephone Number: 501-569-8619

Email invoices? ☒ Yes ☐ No Invoice email (if different): gxlenard@ualr.edu

Authorized Official Name: Steve McClellan, Vice Chancellor for Finance

Email: sjmcclellan@ualr.edu

Telephone Number: 501-569-3202

**PI Address:**

same as above

**Administrative Address:**

University of Arkansas at Little Rock  
Office of Research and Sponsored Programs  
Ottenheimer Library Suite 512  
2801 S. University Avenue  
Little Rock, AR 72204-1000

**Invoice Address:**

University of Arkansas at Little Rock  
Office of Research and Sponsored Programs  
Ottenheimer Library Suite 512  
2801 S. University Avenue  
Little Rock, AR 72204-1000



**Attachment 3B**  
**Research Subaward Agreement**  
**Subrecipient Contacts**

Subaward Number:  
**253238-18CMU**

**Subrecipient Place of Performance**

Name: **CARNEGIE MELLON UNIVERSITY**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

EIN No.: **250969449**

Institution Type: **Private Institution of Higher Education**

Zip Code + 4: **15213-3890**  
(Look up)

Is Subrecipient currently registered in SAM? ☒ Yes ☐ No

Is Subrecipient exempt from reporting compensation? ☒ Yes ☐ No

**If no, please complete 3B page 2**

DUNS No.:  
**052184116**

Parent DUNS No.:

Congressional District:  
**PA 014**

Congressional District:

**Subrecipient Administrative Contact**

Name: **ROBERT M. KEARNS**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code: **15213-3890**

Telephone: **(412) 268-8746**

Fax: **(412) 268-6279**

E-mail: **OSP@ANDREW.CMU.EDU**

**Subrecipient Principal Investigator (PI)**

Name: **KATHLEEN CARLEY**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code + 4: **15213-3890**

Telephone: **(412) 268-6016**

Fax:

E-mail: **kathleen.carley@cs.cmu.edu**

**Subrecipient Financial Contact**

Name: **RHONDA KLOSS**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code: **15213-3890**

Telephone: **(412) 268-1015**

Fax: **(412) 268-5841**

E-mail: **CMUSPA@ANDREW.CMU.EDU**

**Subrecipient Authorized Official**

Name: **LINDA FEUSTER DUFFY**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code: **15213-3890**

Telephone: **(412) 268-8746**

Fax: **(412) 268-6279**

E-mail: **OSP@ANDREW.CMU.EDU**

**Attachment 3B Page 2**  
**Research Subaward Agreement**  
**Highest Compensated Officers**

Subaward Number:

**253238-18CMU**

**Subrecipient**

Name:

**CARNEGIE MELLON UNIVERSITY**

PI:

**KATHLEEN CARLEY**

**Highest Compensated Officers**

The names and total compensation of the five most highly compensated officers of the entity(ies) must be listed if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1) Internal Revenue Code of 1986.

Officer 1 Name

Officer 1 Compensation

Officer 2 Name

Officer 2 Compensation

Officer 3 Name

Officer 3 Compensation

Officer 4 Name

Officer 4 Compensation

Officer 5 Name

Officer 5 Compensation



**Attachment 4**  
**Reporting and Prior Approval Terms**

Subaward Number:

253238-18CMU

Subrecipient agrees to submit the following reports (PTE contacts are identified in Attachment 3A):

**Technical Reports:**

- ☒ Monthly technical/progress reports will be submitted to the PTE's Principal Investigator within 15 days of the end of the month.
- ☒ Quarterly technical/progress reports will be submitted within 30 days after the end of each project quarter to the PTE's Principal Investigator
- ☐ Annual technical / progress reports will be submitted within 60 days prior to the end of each budget period to the PTE's Administrative Contact . Such report shall also include a detailed budget for the next Budget Period, updated other support for key personnel, certification of appropriate education in the conduct of human subject research of any new key personnel, and annual IRB or IACUC approval, if applicable.
- ☒ A Final technical/progress report will be submitted to the PTE's Principal Investigator within 60 days of the end of the Project Period or after termination of this award, whichever comes first.
- ☒ Technical/progress reports on the project as may be required by PTE's Principal Investigator in order for the PTE to satisfy its reporting obligations to the Federal Awarding Agency.

**Prior Approvals:**

Carryover:

Carryover is automatic

**Other Reports:**

- ☒ In accordance with 37 CFR 401.14, Subrecipient agrees to notify PTE's Administrative Contact 60 days after Subrecipient's inventor discloses invention(s) in writing to Subrecipient's personnel responsible for patent matters. The Subrecipient will submit a final invention report using Federal Awarding Agency specific forms to the PTE's Administrative Contact within 60 days of the end of the Project Period to be included as part of the PTE's final invention report to the Federal Awarding Agency.  
A negative report is required:
- ☐ Property Inventory Report (only when required by Federal Awarding Agency), specific requirements below.

**Other Special Reporting Requirements:**

**Attachment 5**  
**Statement of Work, Cost Sharing, Indirects & Budget**

Subaward Number:

253238-18CMU

**Statement of Work**

☐ Below ☒ Attached,  pages

If award is FFATA eligible and SOW exceeds 4000 characters, include a *Subrecipient Federal Award Project Description*

**Budget Information**

**Indirect Information** Indirect Cost Rate (IDC) Applied  %

**Cost Sharing**

Rate Type:

If Yes, include Amount: \$

**Budget Details**

☐ Below ☒ Attached,  pages

**Budget Totals**

Direct Costs \$

Indirect Costs \$

Total Costs \$

*All amounts are in United States Dollars*



ISR Research Proposal Budget									
<div> <div>Title:</div> <div>PI: Dr. Carley</div> <div>Sponsor: ONR</div> <div>Today's Date: 10-Apr-17</div> <div>Proposal Due Date: 10-Apr-17</div> <div>Fiscal Year: FY17</div> <div>Start Date: 10-Apr-17</div> <div>Duration (Months): 34.00</div> <div>End date: 10-Apr-17</div> </div>									
Proposal Assumptions - Budget Input									
Personnel By Name	# Employees	Select AY or CY	Input Salary	Monthly Salary	Phase 1 Months	Phase 2 Months	Phase 1	Phase 2	TOTAL
PI	100.00%	CY	(b) (4)	(b) (4)	0.0	1.5	\$0	(b) (4)	(b) (4)
Technical Professional	100.00%	CY	(b) (4)	(b) (4)	0.0	1.0	\$0	(b) (4)	(b) (4)
Technical Professional	100.00%	CY	(b) (4)	(b) (4)	0.0	0.5	\$0	(b) (4)	(b) (4)
Technical Professional	100.00%	CY	(b) (4)	(b) (4)	0.0	0.5	\$0	(b) (4)	(b) (4)
Technical Writer	100.00%	CY	(b) (4)	(b) (4)	0.0	0.0	\$0	(b) (4)	(b) (4)
Admin	100.00%	CY	(b) (4)	(b) (4)	0.0	0.0	\$0	(b) (4)	(b) (4)
<b>TOTAL PERSONNEL</b>							\$0	\$47,324	\$47,324
# Students (1.0 = 100% Effort)									
Grad Student PhD.	1.0	Tuition	(b) (4)	(b) (4)	9.0	9.0	\$0	(b) (4)	(b) (4)
	1.0	Stipend	(b) (4)	(b) (4)	12.0	12.0	\$0	(b) (4)	(b) (4)
<b>TOTAL GRAD &amp; UNDER-GRAD</b>							\$0	(b) (4)	(b) (4)
<b>Total Personnel</b>							\$0	(b) (4)	(b) (4)
<b>Fringe Benefits Rates</b>							\$0	(b) (4)	(b) (4)
<b>Fringe</b>							\$0	(b) (4)	(b) (4)
<b>TOTAL PERSONNEL &amp; FRINGE</b>							\$0	(b) (4)	(b) (4)
<b>Travel:</b>							\$0	(b) (4)	(b) (4)
Domestic - Travel							\$0	(b) (4)	(b) (4)
International - Travel							\$0	(b) (4)	(b) (4)
<b>TOTAL TRAVEL:</b>							\$0	(b) (4)	(b) (4)
<b>Equipment</b>							\$0	(b) (4)	(b) (4)
<b>TOTAL EQUIPMENT/PARTICIPANT COSTS</b>							\$0	(b) (4)	(b) (4)
<b>Sub-total Contractual :</b>							\$0	(b) (4)	(b) (4)
<b>Other Operating</b>							\$0	(b) (4)	(b) (4)
<b>Computing</b>							\$0	(b) (4)	(b) (4)
<b>OTHER DIRECT COSTS</b>							\$0	(b) (4)	(b) (4)
<b>TOTAL DIRECT COSTS</b>							\$0	(b) (4)	(b) (4)
<b>Modified Total Direct Costs</b>							\$0	(b) (4)	(b) (4)
<b>Indirect CMU Overhead Rate:</b>							\$0	(b) (4)	(b) (4)
<b>Subcontracts F&amp;A Base:</b>							\$0	(b) (4)	(b) (4)
<b>Total Indirect Costs</b>							\$0	(b) (4)	(b) (4)
<b>TOTAL</b>							\$0	\$225,000	\$225,000

**STATEMENT OF WORK (PROF. KATHLEEN CARLEY, CMU)**

Social media is a key element in modern propaganda campaigns and information warfare. Increasingly such messages are carried in not just the text but also in the images and videos attached to the text. Further, those wishing to propagate their message have broader reach when they use multiple media in conjunction; e.g., YouTube videos that are tweeted about tend to be viewed more than those that are not. As another example, tweets containing images are more likely to go viral. It is important to note that image and video media, such as YouTube becoming the media of choice for education and entertainment. As such, YouTube is one of the fastest growing modes of behavioral steering, with various production styles catering to specific demographics (teens and youths) subjecting them to conspiracy theories, disinformation campaigns, and radicalization strategies. Increasingly, covert groups are coordinating their use of YouTube videos with Twitter, and other media to produce effective disinformation campaigns. A key element of these multi-media campaigns is that they use inconsistency in the video and text message to increase distrust, level sarcasm, and generate humor. In contrast consistency in the video and text, increases the power of both. We propose to leverage conventional social network theories, text mining, and multimedia processing concepts to identify the patterns of communication used in successful propaganda campaigns and to wage information warfare.

CMU will coordinate with ASU and UALR to conduct research on multi-media propaganda campaigns. As such CMU will develop technologies for importing data from the new ASU YouTube Tracker and VK Tracker, and the new UALR BlogTracker into the ORA tool for network analytics. This will afford the collective research team the ability to interoperate and to share data and leverage research results.

As part of the CASOS Summer Institute and the proposed winter institute, CMU will also provide training on the import of data from these tools into ORA, and on how to analyze and visualize the networks inherent in such multi-media data.

CMU will develop new algorithms, techniques, and practices for tracking covert groups and their propaganda using these multiple media. This work will build off of the current covert group detection work that uses Twitter. A key element of this work will be to develop, test, and evaluate the effectiveness of new dense group detection techniques that utilize information on both the networks of topics and actors in estimating groups and the change in groups. A key to this work will be the development of scalable network techniques for dense, weighted, and valenced networks. Current network techniques are scalable when the networks are sparse; however, our prior work has shown that propaganda activity, covert and extremist groups are linked into very dense high dimensional networks that are fluid in both membership and topics.

CMU will explore the conditions and structural properties that enable such groups to become echo chambers that support the rapid dissemination of disinformation, and reduce the likelihood that the veracity of that information becomes public knowledge. A combination of machine learning, text mining, and dynamic network techniques will be used. The focus will be on the structural properties within the group, between competing groups, and the structural properties of the key disseminating actors in a high dimensional – social, topic, and image space.

CMU will also assess the feasibility of using new image processing techniques to assess the sentiment embedded in images and to characterize the message of the image. This will then be contrasted with the sentiment in context around key concepts in the message, the dialogue of sets of messages, and the content of the message. The key here will be to develop an approach for assessing whether the message in the image/video and that in the text are similar or



different. We see this work as highly exploratory and laying the groundwork for future work in this area.

# Carnegie Mellon

Institute for Software Research  
School of Computer Science  
Carnegie Mellon University  
5000 Forbes Avenue  
Pittsburgh, PA 15213-3890

412.268.8383  
412.268.2338 (f)

Dr. Nitin Agarwal  
Professor Information Science Department  
University of Arkansas at Little Rock  
Email: nxagarwal@ualr.edu

Phone: (501) 683 7155

September 19, 2016

Re: Subcontract to UALR: Propaganda Dissemination and Information Warfare  
Internal Spex# 170288

Dear Nitin,

This letter is to confirm our intent to participate as a subcontractor in the above-mentioned research proposal.

Enclosed is our cost projection which is necessary to solidify our subcontract agreement.

Sincerely,

(b) (6)

Dr. Kathleen M. Carley  
Carnegie Mellon University

(b) (6)

Rob Kearns  
Office of Sponsored Programs  
Carnegie Mellon University



## Personnel Costs

*Salaries: All salaries are based on FY 2017 salaries. Faculty and staff salaries currently reflect no salary increase for FY2017 (July 1, 2016) and an anticipated (b) (4) annual increase effective July 1, 2017. This incorporates merit increases as well as cost of living and market condition considerations. Graduate support is increased effective September 1. The colleges each set their graduate support rates in consultation with their faculty, department heads, deans and the Provost taking into account an evaluation of our historical market position in comparison to our peer institutions. Salaries for research faculty and staff are based on a twelve-month calendar year; salaries for teaching faculty and graduate students are based on a nine-month academic year and three summer months.*

Faculty and Staff Increase Rate: FY2017 - (b) (4)  
FY2018 and thereafter - (b) (4)

Average Graduate Support Increase Rate: (b) (4)

*Fringe Benefits: The University's fiscal year is July 1 - June 30. Fringe benefits for faculty and staff are calculated as follows. No fringe benefits are calculated on graduate student stipends or undergraduate student wages.*

	full time	part time ≥17.5 hrs/wk	part time <17.5 hrs/wk
FY2017	(b) (4)	(b) (4)	(b) (4)
FY2018	(b) (4)	(b) (4)	(b) (4)
thereafter	(b) (4)	(b) (4)	(b) (4)

## Operating Expenses

General operating expenses are increased annually based on an estimate of inflation.

Operating Expense Increase Rate: (b) (4)

Expenditures budgeted under Operating Expenses for this proposal are costs that can be identified specifically with this particular sponsored project and are required in the direct performance of the research. Some of these expenses can be estimated with a high degree of accuracy for this project and are listed individually. Other expenses are estimated using a formula. These expenses include applicable computer supplies and software, copying, telephone and fax toll charges, postage and express mail, technical supplies and printing expenditures. These proposed expenses are based on the following percentages of research salaries and fringe benefits. The actual costs charged will be directly required for the sponsored work and can be specifically identified with a high degree of accuracy.

Computing Facilities Support (b) (4)

This percentage was derived from a comparison of Computing Facilities Support expenditures to research salaries and fringe benefits. Since we round to the nearest dollar

monthly, on a project basis, this expense may not be exactly equal to the percent times the salary dollars.

#### **Travel**

It is to attend domestic conferences required by the solicitation to disseminate the knowledge gained during the grant through papers and talks, and to help the grad students on the grant learn about current research in the area.

#### **Overhead**

Overhead on this proposal has been calculated at our current proposed or negotiated rate for all fiscal years in accordance with OMB Circular A-21, Section G.7. The modified total direct cost base (MTDC) amount used in calculating the indirect costs is the total direct costs, excluding equipment, capital expenditures, charges for tuition remission, rental costs, scholarships and fellowships, internally charged telephone, internally charged copying, and individual subcontract costs in excess of \$25,000.


Overhead Rate: (b) (4)



## **Attachment 6**

### **Notice of Award (NOA) and any additional documents**

- ☒ The following pages include the NOA and if applicable any additional documentation referenced throughout this Subaward.
- ☐ Not incorporating the NOA or any additional documentation to this Subaward.

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995	
				3b. CFDA: 12.300	
1. INSTRUMENT TYPE: Grant Award		2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended		3c. DUNS NUMBER: 036725083	
4. AWARD NO.: N00014-17-1-2605		5. MODIFICATION NO.: P00001		6. MODIFICATION TYPE: IF	
8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12254753		9. RECIPIENT PROPOSAL NO.: FP00009075; Liu		7. PR NO.: 4720003532	
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF ARKANSAS SYSTEM UNIVERSITY OF ARKANSAS AT LITTLE RO 2801 S UNIVERSITY AVE LITTLE ROCK AR 72204-1000 UNITED STATES OF AMERICA		13b. CAGE: 1PCW4		13c. EDI/EFT NUMBER: N/A	
13d. BUSINESS OFFICE CONTACT: Sharon Kaufman		13e. TELEPHONE NUMBER: 5015693246		13f. EMAIL ADDRESS: sekaufman@ualr.edu	
14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13):  Same as Block # 13					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Developing Novel Socio-computational Methodologies to Analyze Multimedia-based Cyber Propaganda Campaigns					
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:				\$190,441.00	
OBLIGATED BY THIS ACTION:				\$1,340,337.00	
TOTAL OBLIGATED ON AWARD:				\$1,530,778.00	
FUTURE FUNDING:				\$0.00	
GRANT TOTAL:				\$1,530,778.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 06/01/2017 THROUGH 01/31/2019					
19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Nitin Agarwal		21. TECHNICAL REPRESENTATIVE 21a. NAME: REBECCA GOOLSBY 21c. ADDRESS: ONR HUMAN & BIOENGINEERED SYSTEMS 875 N. Randolph Street Arlington VA 22203-1995		21b. CODE: 341	
20b. TELEPHONE NUMBER: 501-683-7155		20c. EMAIL ADDRESS: nxagarwal@ualr.edu		21d. TELEPHONE NUMBER: 7035880588	
22. AWARDING OFFICE CONTACT 22a. NAME: DIANE GALES		22b. CODE: BD255		21e. EMAIL ADDRESS: REBECCA.GOOLSBY@NAVY.MIL	
22c. ADDRESS: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995		23a. ADMINISTRATIVE OFFICE: ONR REG Office Atlanta Telephone: (404) 562-1600 100 Alabama Street, SW Suite 4R15 ATLANTA GA 30303		23b. CODE: N66020	
22d. TELEPHONE NUMBER:		22e. EMAIL ADDRESS: DIANE.GALES@NAVY.MIL			
24. SUBMIT PAYMENT REQUEST TO: Same as block 23a		25a. PAYING OFFICE: DFAS-CO/WEST ENTITLEMENT OPERATIONS HQ0339 PO Box 182381 COLUMBUS OH 43218		25b. CODE: HQ0339	
		26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995		26b. CODE: N00014	



AWARD NO. N00014-17-1-2605		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00001	
27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>					
Full Delegation					
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.					
DOCUMENT		URL			
The following documents may be found at : <a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a> DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (JULY 2016) UAAC ACCEPTANCE C (NOV 2003) UAWA AWARD A (NOV 2003) STANDARD TERMS/CONDITIONS FOR RESEARCH GRANTS (AGENCY SPECIFIC) (FEB 2015)					
30. OPTIONS	OPTION NO.	AMOUNT		PERIOD	
(1)					
(2)					
(3)					
(4)					
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".					
ADDRESSEE		REPORT TYPE		COPIES	
See block #21		Final Technical Report with SF298 Performance /Technical Report ( As Required ) with SF298		1 1	
See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report transmittal Letter only Performance /Technical Report ( As Required ) Final Federal Financial Status Report - SF425 - Including Line Item 11		1 1 1 1	
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218		Final Technical Report with SF298 Performance /Technical Report ( As Required ) with SF298		1 1	
See block #26a		Report of Inventions and Subcontracts - DD 882		1	
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320		Final Technical Report Performance /Technical Report ( As Required ) with SF298		1 1	
32. FOR THE RECIPIENT			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN			33a. SIGNATURE OF AWARDOFFICER Digitally signed by DIANE GALES 1232147012 Dated: 2017.08.17 09:20:03 EST		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARD OFFICER DIANE GALES	
				33c. DATE SIGNED 08/17/2017	

# FINANCIAL ACCOUNTING DATA SHEET- NAVY

1 CONTRACT NUMBER (CRITICAL) N00014-17-1-2605		2 SPIN (CRITICAL)		3 MOD (CRITICAL) P00001		4 PR NUMBER 4720003532									
CLINISLN	6 LINE OF ACCOUNTING										7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN			
	A ACRN (CRITICAL)	B APPROPRIATION (CRITICAL)	C SUBHEAD (CRITICAL)	D OBJ CLA	E PARM	F RFM	G SA	H AAA (CRITICAL)	I IT	J PM			K COST CODE		
													PROJ UNIT	MCC	PDU &SUF
	AC	1771319	W2DE	410	00	014	0	050120	2D	000000	0C0023	573	869	\$1,340,337.00	
												PAGE TOTAL	\$1,340,337.00		
												GRAND TOTAL	\$1,340,337.00		
PREPARED/AUTHORIZED BY						COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE									
DATE						BY						for COMPTROLLER, CNR CONTRACT REVIEWED			



## FINANCIAL ACCOUNTING DATA SHEET-NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-17-1-2605		2. SPIN (CRITICAL)		3. MOD (CRITICAL) P00001		4. PR NUMBER 4720003532			
5. CLIN/S/LIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION				8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DODACRN	
						PAGE TOTAL			
						GRAND TOTAL			
PREPARED/AUTHORIZED BY					COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE				
DATE					BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED				

AWARD NO. N00014-17-1-2605	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00001
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## FDP Cost Reimbursement Research Subaward Agreement

Federal Awarding Agency: Office of Naval Research (ONR)

Pass-Through Entity (PTE):

University of Arkansas at Little Rock

Subrecipient:

Carnegie Mellon University

PTE PI: Dr. Nitin Agarwal

Sub PI: Kathleen Carley

PTE Federal Award No: N00014-17-1-2605

Subaward No: 253238-18CMU

Project Title: Developing Novel Socio-computational Methodologies to Analyze Multimedia-based Cyber Propaganda Campaigns

Subaward Period of Performance (Budget Period):

Start: 06/01/2017

End: 12/31/2018

Amount Funded This Action (USD): \$ 225,000.00

Estimated Project Period (if incrementally funded):

Start:

End:

Incrementally Estimated Total (USD): \$

### Terms and Conditions

1. PTE hereby awards a cost reimbursable subaward, as described above, to Subrecipient. The Statement of Work and budget for this Subaward are as shown in Attachment 5. In its performance of Subaward work, Subrecipient shall be an independent entity and not an employee or agent of PTE.
2. Subrecipient shall submit invoices not more often than monthly and not less frequently than quarterly for allowable costs incurred. Upon the receipt of proper invoices, the PTE agrees to process payments in accordance with this Subaward and 2 CFR 200.305. All invoices shall be submitted using Subrecipient's standard invoice, but at a minimum shall include current and cumulative costs (including cost sharing), Subaward number, and certification, as required in 2 CFR 200.415 (a). Invoices that do not reference PTE Subaward number shall be returned to Subrecipient. Invoices and questions concerning invoice receipt or payments shall be directed to the party's Financial Contact, shown in Attachment 3A.
3. A final statement of cumulative costs incurred, including cost sharing, marked "FINAL" must be submitted to PTE's Financial Contact, as shown in Attachment 3A, not later than 60 days after the Project Period end date. The final statement of costs shall constitute Subrecipient's final financial report.
4. All payments shall be considered provisional and are subject to adjustment within the total estimated cost in the event such adjustment is necessary as a result of an adverse audit finding against the Subrecipient.
5. Matters concerning the technical performance of this Subaward shall be directed to the appropriate party's Principal Investigator as shown in Attachments 3A and 3B. Technical reports are required as shown in Attachment 4.
6. Matters concerning the request or negotiation of any changes in the terms, conditions, or amounts cited in this Subaward, and any changes requiring prior approval, shall be directed to each party's Authorized Official Contact, as shown in Attachments 3A and 3B. Any such change made to this Subaward requires the written approval of each party's Authorized Official, as shown in Attachments 3A and 3B.
7. The PTE may issue non-substantive changes to the Period of Performance and budget Bilaterally. Unilateral modification shall be considered valid 14 days after receipt unless otherwise indicated by Subrecipient when sent to Subrecipient's Authorized Official Contact, as shown in Attachment 3B.
8. Each party shall be responsible for its negligent acts or omissions and the negligent acts or omissions of its employees, officers, or directors, to the extent allowed by law.
9. Either party may terminate this Subaward with 30 days written notice to the appropriate party's Administrative Contact, as shown in Attachments 3A and 3B. PTE shall pay Subrecipient for termination costs as allowable under Uniform Guidance, 2 CFR 200, or 45 CFR Part 75 Appendix IX, as applicable.
10. By signing this Subaward, including the attachments hereto which are hereby incorporated by reference, Subrecipient certifies that it will perform the Statement of Work in accordance with the terms and conditions of this Subaward and the applicable terms of the Federal Award, including the appropriate Research Terms and Conditions ("RTCs") of the Federal Awarding Agency, as referenced in Attachment 2. The parties further agree that they intend this Subaward to comply with all applicable laws, regulations and requirements.

By an Authorized Official of Pass-through Entity:

(b) (6)

Name: Steve McClellan

Date

01-23-2018

Title: Vice Chancellor for Finance

By an Authorized Official of Subrecipient:

Name:

Date

Title:

Ⓟ



**Attachment 1**  
**Certifications and Assurances**

Subaward Number:

253238-18CMU

**Certification Regarding Lobbying (2 CFR 200.450)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief, that no Federal appropriated funds have been paid or will be paid, by or on behalf of the Subrecipient, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement in accordance with 2 CFR 200.450.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or intending to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the Subrecipient shall complete and submit Standard Form -LLL, "Disclosure Form to Report Lobbying," to the PTE.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

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**Debarment, Suspension, and Other Responsibility Matters (2 CFR 200.213 and 2 CFR 180)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief that neither the Subrecipient nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, in accordance with 2 CFR 200.213 and 2 CFR 180.

---

**Audit and Access to Records**

Per 2 CFR 200.501- 200.521, Subrecipient certifies that it will provide notice of any adverse findings which impact this Subaward and will provide access to records as required by parts 2 CFR 200.336, 200.337, and 200.201 as applicable. If Subrecipient is not subject to the Single Audit Act, then Subrecipient will provide notice of the completion of any required audits and provide access to such audits upon request.

---

**Program for Enhancement of Contractor Employee Protections (41 U.S.C 4712)**

Subrecipient is hereby notified that they are required to: inform their employees working on any federal award that they are subject to the whistleblower rights and remedies of the pilot program; inform their employees in writing of employee whistleblower protections under 41 U.S.C §4712 in the predominant native language of the workforce; and include such requirements in any agreement made with a subcontractor or subgrantee.

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The Subrecipient shall require that the language of the certifications above in this Attachment 1 be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

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**Use of Name**

Neither party shall use the other party's name, trademarks, or other logos in any publicity, advertising, or news release without the prior written approval of an authorized representative of that party. The parties agree that each party may use factual information regarding the existence and purpose of the relationship that is the subject of this Subaward for legitimate business purposes, to satisfy any reporting and funding obligations, or as required by applicable law or regulation without written permission from the other party. In any such statement, the relationship of the parties shall be accurately and appropriately described.



**Attachment 2**  
**Federal Award Terms and Conditions**

Subaward Number  
253238-18CMU

**Required Data Elements**

The data elements required by Uniform Guidance are incorporated in the attached Federal Award.

Federal Award Issue Date	FAIN	CFDA No.
08/17/17	N00014-17-1-2605	12.300

**This Subaward Is:**

☒ Research & Development ☒ Subject to FFATA

CFDA Title
Basic and Applied Scientific Research
Key Personnel Per NOA

**General Terms and Conditions**

By signing this Subaward, Subrecipient agrees to the following:

1. To abide by the conditions on activities and restrictions on expenditure of federal funds in appropriations acts that are applicable to this Subaward to the extent those restrictions are pertinent. This includes any recent legislation noted on the Federal Awarding Agency's website:  

DoD interim implementation 2 CFR 1103 (81 FR 78442), and as applicable 32 CFR Chapter I, Subchapter C, DoD Grant and Agreement Regulations, other than parts 32 and 33.
2. 2 CFR 200
3. The Federal Awarding Agency's grants policy guidance, including addenda in effect as of the beginning date of the period of performance or as amended found at:  

<http://www.onr.navy.mil/contracts-grants.aspx>
4. Research Terms and Conditions, including any Federal Awarding Agency's Specific Requirements found at:  

<http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/~media/Files/Contracts-Grants/docs/DoD-Research-Terms-Conditions-JUL2016.ashx>

 except for the following :
  - a. No-cost extensions require the written approval of the PTE. Any requests for a no-cost extension shall be directed to the Administrative Contact shown in Attachment 3A, not less than 30 days prior to the desired effective date of the requested change.
  - b. Any payment mechanisms and financial reporting requirements described in the applicable Federal Awarding Agency Terms and Conditions and Agency-Specific Requirements are replaced with Terms and Conditions (1) through (4) of this Subaward; and
  - c. Any prior approvals are to be sought from the PTE and not the Federal Awarding Agency.
  - d. Title to equipment as defined in 2 CFR 200.33 that is purchased or fabricated with research funds or Subrecipient cost sharing funds, as direct costs of the project or program, shall vest in the Subrecipient subject to the conditions specified in 2 CFR 200.313.
  - e. Prior approval must be sought for a change in Subrecipient PI or change in Key Personnel (defined as listed on the NOA).
5. Treatment of program income: 

Additive

This section intentionally left blank

**Special Terms and Conditions:**

**Copyrights:**

Subrecipient Grants to PTE an irrevocable, royalty-free, non-transferable, non-exclusive right and license to use, reproduce, make derivative works, display, and perform publicly any copyrights or copyrighted material (including any computer software and its documentation and/or databases) first developed and delivered under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

Subrecipient grants to PTE the right to use any written progress reports and deliverables created under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its Federal Award.

**Data Rights:**

Subrecipient grants to PTE the right to use data created in the performance of this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

**Data Sharing and Access** (Check if applicable):

☐ Subrecipient agrees to comply with the Federal Awarding Agency's data sharing and access requirements as reflected in the NOA (or in the special terms below) and the Data Management/Sharing Plan submitted to the Federal Awarding Agency and attached.

**Promoting Objectivity in Research (COI):**

Subrecipient must designate herein which entity's Financial Conflicts of Interest policy (COI) will apply: **Subrecipient**

If applying its own COI policy, by execution of this Subaward, Subrecipient certifies that its policy complies with the requirements of the relevant Federal Awarding Agency as identified herein: **ONR - BAA#N00014-16-R-BA01**

Subrecipient shall report any financial conflict of interest to PTE's Administrative Representative or COI contact, as designated on Attachment 3A. Any financial conflicts of interest identified shall, when applicable, subsequently be reported to Federal Awarding Agency. Such report shall be made before expenditure of funds authorized in this Subaward and within 45 days of any subsequently identified COI.

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**Work Involving Human or Vertebrate Animals (Select Applicable Options)**

☒ No Human or Vertebrate Animals

This section left intentionally blank.

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**Human Subjects Data (Select One)** **Not Applicable**

This section left intentionally blank

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**Additional Terms**



**Attachment 3A**  
**Research Subaward Agreement**  
**Pass-Through Entity (PTE) Contacts**

Subaward Number:

253238-18CMU

**PTE Information**

Entity Name: University of Arkansas at Little Rock

Legal Address: 2801 S. University Avenue  
Little Rock, AR 72204-1000

Website: www.ualr.edu

**PTE Contacts**

Central Email: orsp@ualr.edu

Principal Investigator Name: Dr. Nitin Agarwal

Email: nxagarwal@ualr.edu

Telephone Number: 501-683-7155

Administrative Contact Name: Sharon Kaufman, Associate Director, ORSP

Email: sekaufman@ualr.edu

Telephone Number: 501-569-3246

COI Contact email (if different to above):

Financial Contact Name: Gayle Lenard, Associate Director, ORSP

Email: gxlenard@ualr.edu

Telephone Number: 501-569-8619

Email invoices? ☒ Yes ☐ No Invoice email (if different): gxlenard@ualr.edu

Authorized Official Name: Steve McClellan, Vice Chancellor for Finance

Email: sjmcclellan@ualr.edu

Telephone Number: 501-569-3202

**PI Address:**

same as above

**Administrative Address:**

University of Arkansas at Little Rock  
Office of Research and Sponsored Programs  
Ottenheimer Library Suite 512  
2801 S. University Avenue  
Little Rock, AR 72204-1000

**Invoice Address:**

University of Arkansas at Little Rock  
Office of Research and Sponsored Programs  
Ottenheimer Library Suite 512  
2801 S. University Avenue  
Little Rock, AR 72204-1000

**Attachment 3B**  
**Research Subaward Agreement**  
**Subrecipient Contacts**

Subaward Number:  
**253238-18CMU**

**Subrecipient Place of Performance**

Name: **CARNEGIE MELLON UNIVERSITY**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

EIN No.: **250969449**

Institution Type: **Private Institution of Higher Education**

Zip Code + 4: **15213-3890**  
(Look up)

Is Subrecipient currently registered in SAM? ☒ Yes ☐ No

Is Subrecipient exempt from reporting compensation? ☒ Yes ☐ No

**If no, please complete 3B page 2**

DUNS No.:  
**052184116**

Parent DUNS No.:

Congressional District:  
**PA 014**

Congressional District:

**Subrecipient Administrative Contact**

Name: **ROBERT M. KEARNS**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code: **15213-3890**

Telephone: **(412) 268-8746**

Fax: **(412) 268-6279**

E-mail: **OSP@ANDREW.CMU.EDU**

**Subrecipient Principal Investigator (PI)**

Name: **KATHLEEN CARLEY**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code + 4: **15213-3890**

Telephone: **(412) 268-6016**

Fax:

E-mail: **kathleen.carley@cs.cmu.edu**

**Subrecipient Financial Contact**

Name: **RHONDA KLOSS**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code: **15213-3890**

Telephone: **(412) 268-1015**

Fax: **(412) 268-5841**

E-mail: **CMUSPA@ANDREW.CMU.EDU**

**Subrecipient Authorized Official**

Name: **LINDA FEUSTER DUFFY**  
Address: **5000 FORBES AVENUE**

City: **PITTSBURGH**

State: **PA**

Zip Code: **15213-3890**

Telephone: **(412) 268-8746**

Fax: **(412) 268-6279**

E-mail: **OSP@ANDREW.CMU.EDU**

**Attachment 3B Page 2**  
**Research Subaward Agreement**  
**Highest Compensated Officers**

Subaward Number:

253238-18CMU

**Subrecipient**

Name:

CARNEGIE MELLON UNIVERSITY

PI:

KATHLEEN CARLEY

**Highest Compensated Officers**

The names and total compensation of the five most highly compensated officers of the entity(ies) must be listed if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1) Internal Revenue Code of 1986.

Officer 1 Name

Officer 1 Compensation

Officer 2 Name

Officer 2 Compensation

Officer 3 Name

Officer 3 Compensation

Officer 4 Name

Officer 4 Compensation

Officer 5 Name

Officer 5 Compensation



**Attachment 4**  
**Reporting and Prior Approval Terms**

Subaward Number:

253238-18CMU

Subrecipient agrees to submit the following reports (PTE contacts are identified in Attachment 3A):

**Technical Reports:**

- ☒ Monthly technical/progress reports will be submitted to the PTE's Principal Investigator within 15 days of the end of the month.
- ☒ Quarterly technical/progress reports will be submitted within 30 days after the end of each project quarter to the PTE's Principal Investigator
- ☐ Annual technical / progress reports will be submitted within 60 days prior to the end of each budget period to the PTE's Administrative Contact . Such report shall also include a detailed budget for the next Budget Period, updated other support for key personnel, certification of appropriate education in the conduct of human subject research of any new key personnel, and annual IRB or IACUC approval, if applicable.
- ☒ A Final technical/progress report will be submitted to the PTE's Principal Investigator within 60 days of the end of the Project Period or after termination of this award, whichever comes first.
- ☒ Technical/progress reports on the project as may be required by PTE's Principal Investigator in order for the PTE to satisfy its reporting obligations to the Federal Awarding Agency.

**Prior Approvals:**

Carryover:  
Carryover is automatic

**Other Reports:**

- ☒ In accordance with 37 CFR 401.14, Subrecipient agrees to notify PTE's Administrative Contact 60 days after Subrecipient's inventor discloses invention(s) in writing to Subrecipient's personnel responsible for patent matters. The Subrecipient will submit a final invention report using Federal Awarding Agency specific forms to the PTE's Administrative Contact within 60 days of the end of the Project Period to be included as part of the PTE's final invention report to the Federal Awarding Agency.  
A negative report is required:
- ☐ Property Inventory Report (only when required by Federal Awarding Agency), specific requirements below.

**Other Special Reporting Requirements:**

**Attachment 5**  
**Statement of Work, Cost Sharing, Indirects & Budget**

Subaward Number:

253238-18CMU

**Statement of Work**

☐ Below ☒ Attached,  pages

If award is FFATA eligible and SOW exceeds 4000 characters, include a *Subrecipient Federal Award Project Description*

**Budget Information**

**Indirect Information** Indirect Cost Rate (IDC) Applied  %

Rate Type:

**Cost Sharing**

If Yes, include Amount: \$

**Budget Details**

☐ Below ☒ Attached,  pages

**Budget Totals**

Direct Costs \$

Indirect Costs \$

Total Costs \$

*All amounts are in United States Dollars*



ISR Research Proposal Budget									
<div> <div>Title:</div> <div>PI: Dr. Carley</div> <div>Sponsor: ONR</div> <div>Today's Date: 10-Apr-17</div> <div>Proposal Due Date: 10-Apr-17</div> <div>Fiscal Year: FY17</div> <div>Start Date: 10-Apr-17</div> <div>Duration (Months): 34.00</div> <div>End date: 10-Apr-17</div> </div>									
Proposal Assumptions - Budget Input									
Personnel By Name	# Employees	Select AY or CY	Input Salary	Monthly Salary	Phase 1 Months	Phase 2 Months	Phase 1	Phase 2	TOTAL
PI	100.00%	CY	(b) (4)	(b) (4)	0.0	1.5	\$0	(b) (4)	(b) (4)
Technical Professional	100.00%	CY	(b) (4)	(b) (4)	0.0	1.0	\$0	(b) (4)	(b) (4)
Technical Professional	100.00%	CY	(b) (4)	(b) (4)	0.0	0.5	\$0	(b) (4)	(b) (4)
Technical Professional	100.00%	CY	(b) (4)	(b) (4)	0.0	0.5	\$0	(b) (4)	(b) (4)
Technical Writer	100.00%	CY	(b) (4)	(b) (4)	0.0	0.0	\$0	(b) (4)	(b) (4)
Admin	100.00%	CY	(b) (4)	(b) (4)	0.0	0.0	\$0	(b) (4)	(b) (4)
TOTAL PERSONNEL							\$0	\$47,324	\$47,324
# Students (1.0 = 100% Effort)									
Grad Student PhD.	1.0	Tuition	(b) (4)	(b) (4)	9.0	9.0	\$0	(b) (4)	(b) (4)
	1.0	Stipend	(b) (4)	(b) (4)	12.0	12.0	\$0	(b) (4)	(b) (4)
TOTAL GRAD & UNDER-GRAD				\$76,190					
Total Personnel		FY17	(b) (4)						
Fringe Benefits Rates		FY18	(b) (4)						
Fringe									
TOTAL PERSONNEL & FRINGE							\$0	\$157,302	\$157,302
Travel:									
Domestic - Travel							\$0	\$0	\$0
International - Travel							\$0	\$0	\$0
TOTAL TRAVEL:							\$0	\$0	\$0
Equipment							\$0	\$0	\$0
TOTAL EQUIPMENT/PARTICIPANT COSTS							\$0	\$0	\$0
Sub-total Contractual :									
Other Operating									
Computing							\$0	\$5,790	\$5,790
OTHER DIRECT COSTS							\$0	\$5,790	\$5,790
TOTAL DIRECT COSTS							\$0	\$5,790	\$5,790
Modified Total Direct Costs							\$0	(b) (4)	(b) (4)
Indirect CMU Overhead Rate:							\$0	(b) (4)	(b) (4)
Subcontracts F&A Base:							\$0	(b) (4)	(b) (4)
Total Indirect Costs							\$0	(b) (4)	(b) (4)
TOTAL							\$0	(b) (4)	(b) (4)



**STATEMENT OF WORK (PROF. KATHLEEN CARLEY, CMU)**

Social media is a key element in modern propaganda campaigns and information warfare. Increasingly such messages are carried in not just the text but also in the images and videos attached to the text. Further, those wishing to propagate their message have broader reach when they use multiple media in conjunction; e.g., YouTube videos that are tweeted about tend to be viewed more than those that are not. As another example, tweets containing images are more likely to go viral. It is important to note that image and video media, such as YouTube becoming the media of choice for education and entertainment. As such, YouTube is one of the fastest growing modes of behavioral steering, with various production styles catering to specific demographics (teens and youths) subjecting them to conspiracy theories, disinformation campaigns, and radicalization strategies. Increasingly, covert groups are coordinating their use of YouTube videos with Twitter, and other media to produce effective disinformation campaigns. A key element of these multi-media campaigns is that they use inconsistency in the video and text message to increase distrust, level sarcasm, and generate humor. In contrast consistency in the video and text, increases the power of both. We propose to leverage conventional social network theories, text mining, and multimedia processing concepts to identify the patterns of communication used in successful propaganda campaigns and to wage information warfare.

CMU will coordinate with ASU and UALR to conduct research on multi-media propaganda campaigns. As such CMU will develop technologies for importing data from the new ASU YouTube Tracker and VK Tracker, and the new UALR BlogTracker into the ORA tool for network analytics. This will afford the collective research team the ability to interoperate and to share data and leverage research results.

As part of the CASOS Summer Institute and the proposed winter institute, CMU will also provide training on the import of data from these tools into ORA, and on how to analyze and visualize the networks inherent in such multi-media data.

CMU will develop new algorithms, techniques, and practices for tracking covert groups and their propaganda using these multiple media. This work will build off of the current covert group detection work that uses Twitter. A key element of this work will be to develop, test, and evaluate the effectiveness of new dense group detection techniques that utilize information on both the networks of topics and actors in estimating groups and the change in groups. A key to this work will be the development of scalable network techniques for dense, weighted, and valenced networks. Current network techniques are scalable when the networks are sparse; however, our prior work has shown that propaganda activity, covert and extremist groups are linked into very dense high dimensional networks that are fluid in both membership and topics.

CMU will explore the conditions and structural properties that enable such groups to become echo chambers that support the rapid dissemination of disinformation, and reduce the likelihood that the veracity of that information becomes public knowledge. A combination of machine learning, text mining, and dynamic network techniques will be used. The focus will be on the structural properties within the group, between competing groups, and the structural properties of the key disseminating actors in a high dimensional – social, topic, and image space.

CMU will also assess the feasibility of using new image processing techniques to assess the sentiment embedded in images and to characterize the message of the image. This will then be contrasted with the sentiment in context around key concepts in the message, the dialogue of sets of messages, and the content of the message. The key here will be to develop an approach for assessing whether the message in the image/video and that in the text are similar or

different. We see this work as highly exploratory and laying the groundwork for future work in this area.



# Carnegie Mellon

Institute for Software Research  
School of Computer Science  
Carnegie Mellon University  
5000 Forbes Avenue  
Pittsburgh, PA 15213-3890

412.268.8383  
412.268.2338 (f)

Dr. Nitin Agarwal  
Professor Information Science Department  
University of Arkansas at Little Rock  
Email: nxagarwal@ualr.edu

Phone: (501) 683 7155

September 19, 2016

Re: Subcontract to UALR: Propaganda Dissemination and Information Warfare  
Internal Spex# 170288

Dear Nitin,

This letter is to confirm our intent to participate as a subcontractor in the above-mentioned research proposal.

Enclosed is our cost projection which is necessary to solidify our subcontract agreement.

Sincerely,

(b) (6)

Dr. Kathleen M. Carley  
Carnegie Mellon University

(b) (6)

Rob Kearns  
Office of Sponsored Programs  
Carnegie Mellon University

## Personnel Costs

*Salaries: All salaries are based on FY 2017 salaries. Faculty and staff salaries currently reflect no salary increase for FY2017 (July 1, 2016) and an anticipated (b) (4) annual increase effective July 1, 2017. This incorporates merit increases as well as cost of living and market condition considerations. Graduate support is increased effective September 1. The colleges each set their graduate support rates in consultation with their faculty, department heads, deans and the Provost taking into account an evaluation of our historical market position in comparison to our peer institutions. Salaries for research faculty and staff are based on a twelve-month calendar year; salaries for teaching faculty and graduate students are based on a nine-month academic year and three summer months.*

Faculty and Staff Increase Rate: FY2017 - (b) (4)  
FY2018 and thereafter - (b) (4)

Average Graduate Support Increase Rate: (b) (4)

*Fringe Benefits: The University's fiscal year is July 1 - June 30. Fringe benefits for faculty and staff are calculated as follows. No fringe benefits are calculated on graduate student stipends or undergraduate student wages.*

	full time	part time ≥17.5 hrs/wk	part time <17.5 hrs/wk
FY2017	(b) (4)	(b) (4)	(b) (4)
FY2018	(b) (4)	(b) (4)	(b) (4)
thereafter	(b) (4)	(b) (4)	(b) (4)

## Operating Expenses

General operating expenses are increased annually based on an estimate of inflation.

Operating Expense Increase Rate: (b) (4)

Expenditures budgeted under Operating Expenses for this proposal are costs that can be identified specifically with this particular sponsored project and are required in the direct performance of the research. Some of these expenses can be estimated with a high degree of accuracy for this project and are listed individually. Other expenses are estimated using a formula. These expenses include applicable computer supplies and software, copying, telephone and fax toll charges, postage and express mail, technical supplies and printing expenditures. These proposed expenses are based on the following percentages of research salaries and fringe benefits. The actual costs charged will be directly required for the sponsored work and can be specifically identified with a high degree of accuracy.

Computing Facilities Support (b) (4)

This percentage was derived from a comparison of Computing Facilities Support expenditures to research salaries and fringe benefits. Since we round to the nearest dollar



monthly, on a project basis, this expense may not be exactly equal to the percent times the salary dollars.

### **Travel**

It is to attend domestic conferences required by the solicitation to disseminate the knowledge gained during the grant through papers and talks, and to help the grad students on the grant learn about current research in the area.

### **Overhead**

Overhead on this proposal has been calculated at our current proposed or negotiated rate for all fiscal years in accordance with OMB Circular A-21, Section G.7. The modified total direct cost base (MTDC) amount used in calculating the indirect costs is the total direct costs, excluding equipment, capital expenditures, charges for tuition remission, rental costs, scholarships and fellowships, internally charged telephone, internally charged copying, and individual subcontract costs in excess of \$25,000.


Overhead Rate: (b) (4)

## **Attachment 6**

### **Notice of Award (NOA) and any additional documents**

- ☒ The following pages include the NOA and if applicable any additional documentation referenced throughout this Subaward.
- ☐ Not incorporating the NOA or any additional documentation to this Subaward.



		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995	
				3b. CFDA: 12.300	
1. INSTRUMENT TYPE: Grant Award		2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended		3c. DUNS NUMBER: 036725083	
4. AWARD NO.: N00014-17-1-2605		5. MODIFICATION NO.: P00001		6. MODIFICATION TYPE: IF	
8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12254753		9. RECIPIENT PROPOSAL NO.: FP00009075; Liu		7. PR NO.: 4720003532	
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF ARKANSAS SYSTEM UNIVERSITY OF ARKANSAS AT LITTLE RO 2801 S UNIVERSITY AVE LITTLE ROCK AR 72204-1000 UNITED STATES OF AMERICA		13b. CAGE: 1PCW4		13c. EDI/EFT NUMBER: N/A	
13d. BUSINESS OFFICE CONTACT: Sharon Kaufman		13e. TELEPHONE NUMBER: 5015693246		13f. EMAIL ADDRESS: sekaufman@ualr.edu	
14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13):  Same as Block # 13					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Developing Novel Socio-computational Methodologies to Analyze Multimedia-based Cyber Propaganda Campaigns					
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:				\$190,441.00	
OBLIGATED BY THIS ACTION:				\$1,340,337.00	
TOTAL OBLIGATED ON AWARD:				\$1,530,778.00	
FUTURE FUNDING:				\$0.00	
GRANT TOTAL:				\$1,530,778.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 06/01/2017 THROUGH 01/31/2019					
19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Nitin Agarwal		21. TECHNICAL REPRESENTATIVE 21a. NAME: REBECCA GOOLSBY 21c. ADDRESS: ONR HUMAN & BIOENGINEERED SYSTEMS 875 N. Randolph Street Arlington VA 22203-1995		21b. CODE: 341	
20b. TELEPHONE NUMBER: 501-683-7155		20c. EMAIL ADDRESS: nxagarwal@ualr.edu		21d. TELEPHONE NUMBER: 7035880588	
22. AWARDING OFFICE CONTACT 22a. NAME: DIANE GALES		22b. CODE: BD255		21e. EMAIL ADDRESS: REBECCA.GOOLSBY@NAVY.MIL	
22c. ADDRESS: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995		23a. ADMINISTRATIVE OFFICE: ONR REG Office Atlanta Telephone: (404) 562-1600 100 Alabama Street, SW Suite 4R15 ATLANTA GA 30303		23b. CODE: N66020	
22d. TELEPHONE NUMBER:		22e. EMAIL ADDRESS: DIANE.GALES@NAVY.MIL			
24. SUBMIT PAYMENT REQUEST TO: Same as block 23a		25a. PAYING OFFICE: DFAS-CO/WEST ENTITLEMENT OPERATIONS HQ0339 PO Box 182381 COLUMBUS OH 43218		25b. CODE: HQ0339	
		26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995		26b. CODE: N00014	

AWARD NO. N00014-17-1-2605		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00001	
27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>					
Full Delegation					
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.					
DOCUMENT		URL			
The following documents may be found at : <a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a> DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (JULY 2016) UAAC ACCEPTANCE C (NOV 2003) UAWA AWARD A (NOV 2003) STANDARD TERMS/CONDITIONS FOR RESEARCH GRANTS (AGENCY SPECIFIC) (FEB 2015)					
30. OPTIONS	OPTION NO.	AMOUNT		PERIOD	
(1)					
(2)					
(3)					
(4)					
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".					
ADDRESSEE		REPORT TYPE		COPIES	
See block #21		Final Technical Report with SF298 Performance /Technical Report ( As Required ) with SF298		1 1	
See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report transmittal Letter only Performance /Technical Report ( As Required ) Final Federal Financial Status Report - SF425 - Including Line Item 11		1 1 1 1	
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218		Final Technical Report with SF298 Performance /Technical Report ( As Required ) with SF298		1 1	
See block #26a		Report of Inventions and Subcontracts - DD 882		1	
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320		Final Technical Report Performance /Technical Report ( As Required ) with SF298		1 1	
32. FOR THE RECIPIENT			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN			33a. SIGNATURE OF AWARDOFFICER Digitally signed by DIANE GALES 1232147012 Dated: 2017.08.17 09:20:03 EST		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED	33b. NAME AND TITLE OF AWARD OFFICER DIANE GALES		33c. DATE SIGNED 08/17/2017



# FINANCIAL ACCOUNTING DATA SHEET- NAVY

1 CONTRACT NUMBER (CRITICAL) N00014-17-1-2605		2 SPIN (CRITICAL)		3 MOD (CRITICAL) P00001		4 PR NUMBER 4720003532									
CLINISLN	6 LINE OF ACCOUNTING										7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN			
	A ACRN (CRITICAL)	B APPROPRIATION (CRITICAL)	C SUBHEAD (CRITICAL)	D OBJ CLA	E PARM	F RFM	G SA	H AAA (CRITICAL)	I IT	J PM			K COST CODE		
													PROJ UNIT	MCC	PDU &SUF
	AC	1771319	W2DE	410	00	014	0	050120	2D	000000	0C0023	573	869	\$1,340,337.00	
PAGE TOTAL													\$1,340,337.00		
GRAND TOTAL													\$1,340,337.00		
PREPARED/AUTHORIZED BY						COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE									
DATE						BY						for COMPTROLLER, CNR CONTRACT REVIEWED			

## FINANCIAL ACCOUNTING DATA SHEET-NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-17-1-2605		2. SPIN (CRITICAL)		3. MOD (CRITICAL) P00001		4. PR NUMBER 4720003532			
5. CLIN/S/LIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION				8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DODACRN	
						PAGE TOTAL			
						GRAND TOTAL			
PREPARED/AUTHORIZED BY					COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE				
DATE					BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED				



AWARD NO. N00014-17-1-2605	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00001
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				06/01/2017 - 01/31/2019 (20 months)	add/deduct	REVISION	BANNER code
	253238						
A	Senior Personnel		Annual Salary				
	PI 2 person-months summer salary		(b) (4)	\$0		\$0	
	PI Academic Salary (5 mo over 18 mo period)		(b) (4)	(b) (4)	(b) (4)	(b) (4)	610000
	TOTAL						
B	Other Personnel	Number					
	Post Doctoral	4	(b) (4)	(b) (4)	(b) (4)		610200
	GRADUATE STUDENTS AT \$18K/year for PhD	10	(b) (4)	(b) (4)			610500
	Hourly Labor @ \$10 per hour /500 hours	5	(b) (4)	(b) (4)			620000
	TOTAL						
C	Fringes Summer 18%; Academic 32%; GA 1% Hourly Labor 1%						
	TOTAL						630000
D	Equipment						
	Equipment (High performance computing server over \$5000)		(b) (4)				
	TOTAL		(b) (4)				750000
E	Travel						
	Domestic		(b) (4)		(b) (4)		
	Foreign		(b) (4)				
	TOTAL						740000
F	Participant Support Costs						
	Stipends			\$0			
	Housing			\$0			
	Meals			\$0			
	Travel		(b) (4)				
	TOTAL						740000
G	Other Direct Costs						
	1. Materials and Supplies		(b) (4)		(b) (4)		710000
	2. Publication Costs/Documentation/Dissemination		(b) (4)				710000
	3. Software		(b) (4)				710000
	4. PC/desktops for students/researchers	(b) (4)	(b) (4)				710000
	5. Tuition GA		(b) (4)		(b) (4)		710000
	6. Health Insurance GA (if applicable)		(b) (4)				760000
	7. Subaward Carnegie Mellon University		(b) (4)				760000
	8. Subaward Arizona State University		(b) (4)				730000
	TOTAL						730000
H	TOTAL DIRECT COSTS		(b) (4)			\$	
	Modofied Total Direct Costs (MTDC)		(b) (4)				
I	INDIRECT COSTS						790400
J	TOTAL INDIRECT AND DIRECT COSTS					\$	
					difference	\$0	

Indirect is charged only on on the first 25,000 of each subaward  
Indirect is not charged on Participant Support Costs  
Indirect is not charged on Tuition or Health Insurance  
Health Insurance is necessary for PhD level GA only

**From:** [Goolsby, Rebecca CIV ONR, 341](#)  
**To:** [saskia.hoffsten@msb.se](mailto:saskia.hoffsten@msb.se)  
**Cc:** [kathleen.carley@cs.cmu.edu](mailto:kathleen.carley@cs.cmu.edu); "Nitin Agarwal"; "Justin Sampson"  
**Subject:** Follow up on NATO STRATCOM COE event, future opportunities  
**Date:** Thursday, April 6, 2017 12:02:07 PM  
**Attachments:** [DRAFT TAP 2017.docx](#)

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Dear Ms. Hoffsten.

It was indeed a pleasure working with you at the NATO Strategic Communication COE workshop earlier this month. Thank you for participation. The teaching/research learned a great deal from your inputs and participation. We hope it was useful for you. If you want more information and connection, we'll be on the COE slack team and a listserv is being planned. It will be launched shortly. My Skype handle is (b) (6) if you desire follow on presentations or lectures, there are a number of ways we can do that virtually. Feel free to contact us directly. Emails for all the teachers are on the cc line.

In addition, I've attached a draft for an upcoming NATO Research Technology Group that is now forming. Sweden is eligible to participate and we would love to have you or one of your colleagues involved. The participating country is required to provide funding for a representative to attend annual meetings and events, and there is a nomination process for this. Sweden is eligible to participate. It would be less technical; it will involve the development of workshops, discussions of research and the development of technical demonstrations so that policy, planners, operators and analysts can learn about technology and about cutting edge research.

Please let me know if you'd like more information about this opportunity, about the class or any other topic.

Very respectfully,

Dr. Rebecca Goolsby, Program Officer  
Office of Naval Research  
Human Systems  
One Liberty Center  
875 N. Randolph Street  
Arlington, VA 22203  
Phone: 703-588-0558  
Email: [Rebecca.Goolsby@navy.mil](mailto:Rebecca.Goolsby@navy.mil)



**From:** Goolshy, Rebecca CIV ONR\_341 on behalf of [rxagapwaj@uslr.edu](mailto:rxagapwaj@uslr.edu)  
**To:** [Dj \(5\)](#); Hayder Al Rubaye; Kiran Kumar Bandeli; Richard Young; Samer Al-Khateeb; Muhammad Nihal Hussain; Goolshy, Rebecca CIV ONR, 341; Adewale Obadimu  
**Subject:** FW: [Non-DOD Source] Invitation: Blogtrackers Demo @ Wed Apr 25, 2018 2pm - 4pm (CDT) (rebecca.goolshy@navy.mil)  
**Attachments:** [invite.ics](#)

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-----Original Appointment-----

From: [rxagapwaj@uslr.edu](mailto:rxagapwaj@uslr.edu) [mailto:[rxagapwaj@uslr.edu](mailto:rxagapwaj@uslr.edu)]  
Sent: Monday, April 23, 2018 5:55 AM  
To: [rxagapwaj@uslr.edu](mailto:rxagapwaj@uslr.edu); Hayder Al Rubaye; Kiran Kumar Bandeli; Richard Young; Samer Al-Khateeb; Muhammad Nihal Hussain; Goolshy, Rebecca CIV ONR, 341; Adewale Obadimu  
Subject: [Non-DOD Source] Invitation: Blogtrackers Demo @ Wed Apr 25, 2018 2pm - 4pm (CDT) (rebecca.goolshy@navy.mil)  
When: Wednesday, April 25, 2018 15:00-17:00 (UTC-05:00) Eastern Time (US & Canada)  
Where: Skype

more details » <<https://www.google.com/calendar/event?>

action=VIEW&ei=XzZaMaMZJIBhOGvNDZOWc3a280NGI5szZ0MTM2YmEzNzRzMdhYTDOTFrNmNpNDZac2o4Y2hwNmugcmVZWNjYSS5sb29uc2J5QG5hdakubWlskok~MTghbbhZJFydZFaQHVvbHhZWR1ZJZGIGJjI3YjkwMmE2NzFhNDZjNmMTC5OWMjM2E3OWE2MWRkYg&ctz=America%2FChicago&hl=en&es=0>

Blogtrackers Demo

When: Wed Apr 25, 2018 2pm - 4pm Central Time

Where: Skype (map <<https://maps.google.com/maps/?q=Skype&hl=en>> )

Calendar: rebecca.goolshy@navy.mil

Who: • [rxagapwaj@uslr.edu](mailto:rxagapwaj@uslr.edu) - organizer

- Hayder Al Rubaye
- Kiran Kumar Bandeli
- Richard Young
- Samer Al-Khateeb
- Muhammad Nihal Hussain
- Goolshy, Rebecca CIV ONR, 341
- Adewale Obadimu

Going? • Yes <<https://www.google.com/calendar/event?>

action=RESPOND&ei=XzZaMaMZJIBhOGvNDZOWc3a280NGI5szZ0MTM2YmEzNzRzMdhYTDOTFrNmNpNDZac2o4Y2hwNmugcmVZWNjYSS5sb29uc2J5QG5hdakubWlskok~1&tok~MTghbbhZJFydZFaQHVvbHhZWR1ZJZGIGJjI3YjkwMmE2NzFhNDZjNmMTC5OWMjM2E3OWE2MWRkYg&ctz=America%2FChicago&hl=en&es=0>

• Maybe <<https://www.google.com/calendar/event?>

action=RESPOND&ei=XzZaMaMZJIBhOGvNDZOWc3a280NGI5szZ0MTM2YmEzNzRzMdhYTDOTFrNmNpNDZac2o4Y2hwNmugcmVZWNjYSS5sb29uc2J5QG5hdakubWlskok~3&tok~MTghbbhZJFydZFaQHVvbHhZWR1ZJZGIGJjI3YjkwMmE2NzFhNDZjNmMTC5OWMjM2E3OWE2MWRkYg&ctz=America%2FChicago&hl=en&es=0>

• No <<https://www.google.com/calendar/event?>

action=RESPOND&ei=XzZaMaMZJIBhOGvNDZOWc3a280NGI5szZ0MTM2YmEzNzRzMdhYTDOTFrNmNpNDZac2o4Y2hwNmugcmVZWNjYSS5sb29uc2J5QG5hdakubWlskok~2&tok~MTghbbhZJFydZFaQHVvbHhZWR1ZJZGIGJjI3YjkwMmE2NzFhNDZjNmMTC5OWMjM2E3OWE2MWRkYg&ctz=America%2FChicago&hl=en&es=0>

more options » <<https://www.google.com/calendar/event?>

action=VIEW&ei=XzZaMaMZJIBhOGvNDZOWc3a280NGI5szZ0MTM2YmEzNzRzMdhYTDOTFrNmNpNDZac2o4Y2hwNmugcmVZWNjYSS5sb29uc2J5QG5hdakubWlskok~MTghbbhZJFydZFaQHVvbHhZWR1ZJZGIGJjI3YjkwMmE2NzFhNDZjNmMTC5OWMjM2E3OWE2MWRkYg&ctz=America%2FChicago&hl=en&es=0>

Invitation from Google Calendar <<https://www.google.com/calendar/>>

You are receiving this courtesy email at the account [rebecca.goolshy@navy.mil](mailto:rebecca.goolshy@navy.mil) because you are an attendee of this event.

To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at <https://www.google.com/calendar/> and control your notification settings for your entire calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. Learn More <<https://support.google.com/calendar/answer/37135#forwarding>> .

**From:** [Goolsby, Rebecca CIV ONR, 341](#)  
**To:** ["Nitin Agarwal"](#)  
**Subject:** FW: RAND Report on Empowering ISIS Opponents on Twitter  
**Date:** Thursday, April 27, 2017 11:15:59 AM  
**Attachments:** (U) RAND - Empowering ISIS Oponents on Twitter - Apr 2017.pdf

---

This is something we should send out in the first listserv message. I'll work with you in the next week or so to get the listserv up and running, with a welcome message and instructions.

VR, Rebecca

-----Original Message-----

From: (b) (6)  
Sent: Wednesday, April 26, 2017 12:33 PM  
To: (b) (6)

(b) (6)

Cc: (b) (6)  
(b) (6)

Subject: RAND Report on Empowering ISIS Opponents on Twitter

ALCON

Interesting RAND report on improving the Counter ISIS community engagement by introducing well documented marketing practices into a coordinated/integrated narrative and campaign development process.

Excerpt

"In comparison with ISIS supporters, ISIS opponents produce 50 percent fewer tweets per day (40 on average, compared with supporters' 60), suggesting that the community is not fully galvanized in the anti-ISIS fight."

RAND Report Link: <https://www.rand.org/pubs/perspectives/PE227.html>

Conclusions:

While social media is still relatively new (Twitter launched in 2006), many of the best practices for using it are based on well understood marketing approaches. The first, and perhaps most important, lesson is that a social media campaign must be part of a broader marketing strategy, whether to sell more shoes of a particular brand or to convince at-risk populations not to engage in violent extremist behavior. Thus, our

recommended approaches for using Twitter must ultimately be tied to an overarching campaign that seeks to undermine extremism.

Social media in particular can be leveraged to "[create] conversations with consumers rather than one-sided strictly persuasive . . . brand messages."37 Working with influencers, engaging them in such a way that their impact increases without degrading their credibility, helps to create this conversation in a more genuine way than purely top-down messaging.

Tailoring top-down messaging by targeting specific themes to different communities also helps facilitate the social conversation by providing distinct content that resonates with the issues that various communities face. Using data-driven market segmentation and analysis, organizations can listen to and learn from the existing ISIS opposition to create more effective countermessages.

Finally, countermessaging strategies and specific efforts should be analyzed to measure impact and modify approaches as needed. Various methods exist for measuring marketing impact, including social media-specific key performance indicators. Evaluating these are beyond the scope of this Perspective, but we mention them here as a key ingredient for designing and evaluating a countermessaging campaign. In particular, they should be tied to specific goals and objectives, rather than evaluated for their own use.

V/R

(b) (6)

Senior Operations Analyst, Bennett Aerospace  
Contract Support to the USASOC G9 S&T Division

UNCLASS Voice: (b) (6)

NIPR: (b) (6)

SIPR: (b) (6)

"I believe we must approach everything we do with our individual, SOF, and American values in mind; always as a member of a bigger team and with an absolute commitment to SOF excellence - whether we are operating in the field, building future readiness, managing our precious resources, developing and acquiring new capabilities or generating better ideas."

(b) (6)



<b>REQUEST FOR ADVANCE OR REIMBURSEMENT</b>  <i>(See instructions on back)</i>		OMB APPROVAL NO. <div style="text-align: center;">0348-0004</div>		PAGE 1 OF 1 PAGES	
		1. TYPE OF PAYMENT REQUESTED a. "X" one or both boxes <input type="checkbox"/> ADVANCE <input checked="" type="checkbox"/> REIMBURSEMENT b. "X" the applicable box <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> PARTIAL		2. BASIS OF REQUEST  <input checked="" type="checkbox"/> CASH  <input type="checkbox"/> ACCRUAL	
3. FEDERAL SPONSORING AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH THIS REPORT IS SUBMITTED  Office of Naval Research		4. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER ASSIGNED BY FEDERAL AGENCY  N00014-17-1-2605		5. PARTIAL PAYMENT REQUEST NUMBER FOR THIS REQUEST  4	
6. EMPLOYER IDENTIFICATION NUMBER  71-0236904	7. RECIPIENT'S ACCOUNT NUMBER OR IDENTIFYING NUMBER  253238	8. PERIOD COVERED BY THIS REQUEST FROM (month, day, year) 02/01/2018 TO (month, day, year) 02/28/2018			
9. RECIPIENT ORGANIZATION  Name: University of Arkansas at Little Rock  Number and Street: 2801 S. University Ave., Ottenh. Lib.Suite 512  City, State and ZIP Code: Little Rock, AR 72204		10. PAYEE (Where check is to be sent if different than item 9)  Name:  Number and Street:  City, State and ZIP Code:			
11. COMPUTATION OF AMOUNT OF REIMBURSEMENTS/ADVANCES REQUESTED					
PROGRAMS/FUNCTIONS/ACTIVITIES ►		(a)	(b)	(c)	TOTAL
a. Total program outlays to date (As of date)		\$ 199,520.89	\$ 0.00	\$ 0.00	\$ 199,520.89
b. Less: Cumulative program income		0.00	0.00	0.00	0.00
c. Net program outlays (Line a minus line b)		199,520.89	0.00	0.00	199,520.89
d. Estimated net cash outlays for advance period		0.00	0.00	0.00	0.00
e. Total (Sum of lines c & d)		199,520.89	0.00	0.00	199,520.89
f. Non-Federal share of amount on line e		0.00	0.00	0.00	0.00
g. Federal share of amount on line e		199,520.89	0.00	0.00	199,520.89
h. Federal payments previously requested		159,015.67	0.00	0.00	159,015.67
i. Federal share now requested (Line g minus line h)		40,505.22	0.00	0.00	40,505.22
j. Advances required by month, when requested by Federal grantor agency for use in making prescheduled advances	1st month				0.00
	2nd month				0.00
	3rd month				0.00
12. ALTERNATE COMPUTATION FOR ADVANCES ONLY					
a. Estimated Federal cash outlays that will be made during period covered by the advance					\$
b. Less: Estimated balance of Federal cash on hand as of beginning of advance period					
c. Amount requested (Line a minus line b)					\$ 0.00

AUTHORIZED FOR LOCAL REPRODUCTION
(Continued on Reverse)
STANDARD FORM 270 (Rev. 7-97)  
Prescribed by OMB Circulars A-102 and A-110

## CERTIFICATION

I certify that to the best of my knowledge and belief the data on the reverse are correct and that all outlays were made in accordance with the grant conditions or other agreement and that payment is due and has not been previously requested.	SIGNATURE OR AUTHORIZED CERTIFYING OFFICIAL	DATE REQUEST SUBMITTED
	(b) (6) Kristen Dickson - Grants and Contracts Specialist   ORSP	March 13, 2018 TELEPHONE (AREA CODE, NUMBER, EXTENSION) 501-569-3056

This space for agency use

Public reporting burden for this collection of information is estimated to average 60 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0004), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

## INSTRUCTIONS

Please type or print legibly. Items 1, 3, 5, 9, 10, 11e, 11f, 11g, 11i, 12 and 13 are self-explanatory; specific instructions for other items are as follows:

Item	Entry	Item	Entry
2	Indicate whether request is prepared on cash or accrued expenditure basis. All requests for advances shall be prepared on a cash basis.		activity. If additional columns are needed, use as many additional forms as needed and indicate page number in space provided in upper right; however, the summary totals of all programs, functions, or activities should be shown in the "total" column on the first page.
4	Enter the Federal grant number, or other identifying number assigned by the Federal sponsoring agency. If the advance or reimbursement is for more than one grant or other agreement, insert N/A; then, show the aggregate amounts. On a separate sheet, list each grant or agreement number and the Federal share of outlays made against the grant or agreement.	11a	Enter in "as of date," the month, day, and year of the ending of the accounting period to which this amount applies. Enter program outlays to date (net of refunds, rebates, and discounts), in the appropriate columns. For requests prepared on a cash basis, outlays are the sum of actual cash disbursements for goods and services, the amount of indirect expenses charged, the value of in-kind contributions applied, and the amount of cash advances and payments made to subcontractors and subrecipients. For requests prepared on an accrued expenditure basis, outlays are the sum of the actual cash disbursements, the amount of indirect expenses incurred, and the net increase (or decrease) in the amounts owed by the recipient for goods and other property received and for services performed by employees, contracts, subgrantees and other payees.
6	Enter the employer identification number assigned by the U.S. Internal Revenue Service, or the FICE (institution) code if requested by the Federal agency.	11b	Enter the cumulative cash income received to date, if requests are prepared on a cash basis. For requests prepared on an accrued expenditure basis, enter the cumulative income earned to date. Under either basis, enter only the amount applicable to program income that was required to be used for the project or program by the terms of the grant or other agreement.
7	This space is reserved for an account number or other identifying number that may be assigned by the recipient.	11d	Only when making requests for advance payments, enter the total estimated amount of cash outlays that will be made during the period covered by the advance.
8	Enter the month, day, and year for the beginning and ending of the period covered in this request. If the request is for an advance or for both an advance and reimbursement, show the period that the advance will cover. If the request is for reimbursement, show the period for which the reimbursement is requested.	13	Complete the certification before submitting this request.
<p>Note: The Federal sponsoring agencies have the option of requiring recipients to complete items 11 or 12, but not both. Item 12 should be used when only a minimum amount of information is needed to make an advance and outlay information contained in item 11 can be obtained in a timely manner from other reports.</p>			
11	The purpose of the vertical columns (a), (b), and (c) is to provide space for separate cost breakdowns when a project has been planned and budgeted by program, function, or		



# FEDERAL FINANCIAL REPORT

(Follow form instructions)

1. Federal Agency and Organizational Element to Which Report is Submitted  Office of Naval Research	2. Federal Grant or Other Identifying Number Assigned by Federal Agency (To report multiple grants, use FFR Attachment)  N00014-17-1-2605	Page of 1 1 pages
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3. Recipient Organization (Name and complete address including Zip code)  University of Arkansas at Little Rock, 2801 S. University Avenue, Little Rock, AR 72204
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4a. DUNS Number  036725083	4b. EIN  71-0236904	5. Recipient Account Number or Identifying Number (To report multiple grants, use FFR Attachment)  253238	6. Report Type <input checked="" type="checkbox"/> Quarterly <input type="checkbox"/> Semi-Annual <input type="checkbox"/> Annual <input type="checkbox"/> Final	7. Basis of Accounting <input checked="" type="checkbox"/> Cash <input type="checkbox"/> Accrual
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8. Project/Grant Period (Month, Day, Year) From: 06/01/2017 To: 01/31/2019	9. Reporting Period End Date (Month, Day, Year) 09/30/2018
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10. Transactions	Cumulative
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(Use lines a-c for single or multiple grant reporting)

<b>Federal Cash (To report multiple grants, also use FFR Attachment):</b>	
a. Cash Receipts	\$678,898.13
b. Cash Disbursements	\$864,307.07
c. Cash on Hand (line a minus b)	(\$185,408.94)

(Use lines d-o for single grant reporting)

<b>Federal Expenditures and Unobligated Balance:</b>	
d. Total Federal funds authorized	\$1,530,778.00
e. Federal share of expenditures	\$864,307.07
f. Federal share of unliquidated obligations	\$0.00
g. Total Federal share (sum of lines e and f)	\$864,307.07
h. Unobligated balance of Federal funds (line d minus g)	\$666,470.93

<b>Recipient Share:</b>	
i. Total recipient share required	\$0.00
j. Recipient share of expenditures	\$0.00
k. Remaining recipient share to be provided (line i minus j)	\$0.00

<b>Program Income:</b>	
l. Total Federal program income earned	\$0.00
m. Program income expended in accordance with the deduction alternative	\$0.00
n. Program income expended in accordance with the addition alternative	\$0.00
o. Unexpended program income (line l minus line m or line n)	\$0.00

11.	a. Type	b. Rate	c. Period From	Period To	d. Base	e. Amount Charged	f. Federal Share
Indirect Expense	Predetermined	42.5%	06/01/2017	01/31/2019	\$420,297.45	\$178,626.42	\$178,626.42
g. Totals:					\$420,297.45	\$178,626.42	\$178,626.42

12. Remarks: Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation:

13. Certification: By signing this report, I certify to the best of my knowledge and belief that the report is true, complete, and accurate, and the expenditures, disbursements and cash receipts are for the purposes and intent set forth in the award documents. I am aware that any false, fictitious, or fraudulent information may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 18, Section 1001)

a. Typed or Printed Name and Title of Authorized Certifying Official  Kristen Dickson, Grants and Contracts Specialist	c. Telephone (Area code, number, and extension) 501-569-3056
	d. Email Address kadickson@ualr.edu

b. Signature of Authorized Certifying Official  (b) (6)	e. Date Report Submitted (Month, Day, Year) 10/24/2018
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14. Agency use only:
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Standard Form 425 - Revised 6/28/2010  
OMB Approval Number: 0348-0061  
Expiration Date: 10/31/2011

<b>Paperwork Burden Statement</b> According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is 0348-0061. Public reporting burden for this collection of information is estimated to average 1.5 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0061), Washington, DC 20503.
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**From:** [Kathleen Carley](#)  
**To:** [Laurie Fenstermacher](#); [LARSON, KATHLEEN G DR-02 USAF AFMC 711 HPW/RHXYM](#); [Nitin Agarwal](#)  
**Cc:** [Goolsby, Rebecca L CIV USN ONR \(US\)](#)  
**Subject:** [Non-DoD Source] meeting in Singapore  
**Date:** Friday, April 19, 2019 12:56:18 PM

---

All, Dr. Goolsby asked me to coordinate. The current plan is for us to meet for breakfast at the Westin in Singapore on Tuesday morning. I am suggesting 8 am. we will then confirm who is going where in the rest of the day,

so

8 am breakfast

1 pm Embassy

DSO meeting will be before or after embassy.

I am arriving 12:25 AM on the 23rd.

(b) (6)

If you are going to the embassy you need to send clearances. See information below.

Action items:

If you wish - send me your hotel and cell phone number.

Confirm if 8 am is fine for breakfast.

Send the time you are arriving in Singapore.

Clearance Passing Info

- SMO Code: 000386 (listed under PACOM)

- Name: SFC Vincent Samson (ODC)

- Contact number is (b) (6)

- Email: [SamsonVA@state.gov](mailto:SamsonVA@state.gov)

-Date: April 23, 2019

-Reason: briefing on social media needs and technologies

Also, please provide the SSNs to Janice in a separate email. [janice.m.searles.civ@mail.mil](mailto:janice.m.searles.civ@mail.mil)

**From:** [Nitin Agarwal](#)  
**To:** [Goolsby, Rebecca CIV ONR, 341](#)  
**Cc:** [Sharon Elizabeth Kaufman](#)  
**Subject:** [Non-DoD Source] Re: 2nd Progress Report Reminder for N000141612412  
**Date:** Friday, June 2, 2017 10:48:06 AM  
**Attachments:** [signature.asc](#)

---

Hi Rebecca,

Many thanks for forwarding this. I never received this notification or the first one. I will get the report submitted before deadline.

Hi Sharon,

Could you please check if these reminders were trapped by your spam. I did not receive either notification. Also, could you please check if there are other such report reminders.

Thanks  
Nitin

> On Jun 2, 2017, at 7:38 PM, Goolsby, Rebecca CIV ONR, 341 <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)> wrote:

>

> We need to have your progress report. :)

>

> -----Original Message-----

> From: [usarmy.rtp.rdecom-aro.mbx.extranet@arl.army.mil](mailto:usarmy.rtp.rdecom-aro.mbx.extranet@arl.army.mil) [<mailto:usarmy.rtp.rdecom-aro.mbx.extranet@arl.army.mil>]

> Sent: Friday, June 02, 2017 10:03 AM

> To: (b) (6)

> Cc: Goolsby, Rebecca CIV ONR, 341

> Subject: 2nd Progress Report Reminder for N000141612412

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Reply to attentio

Subject: Proposal No. N1754-NV-ONR, Agreement No. N00014-16-1-2412

>

>

>

(b) (6)

Ms. Sharon Kaufman

University of Arkansas @ Little Rock

> 2801 South University Avenue  
> Little Rock, AR 722041000  
> UNITED STATES  
>

> Dear Dr. Kaufman:  
>

> 2nd NOTICE OF INTERIM PROGRESS REPORT DUE: June 15, 2017  
>

> This message serves as a reminder (an initial message was sent on or about 18 April  
> 2017) that an Interim Progress Report for your ONR award, N00014-16-1-2412 is due  
> June 15th, 2017 for the period beginning June 16, 2016 and ending June 15, 2017 (12  
> months). If you are receiving this message, our electronic records indicate that  
> you have not yet completed your report. Reports MUST BE SUBMITTED online at  
> <<https://extranet.aro.army.mil>>. The progress reports are a critical tool in the  
> process for your program officer to release incremental funding or evaluate a  
> pending renewal proposal, therefore, it is essential that the reports be submitted  
> by the deadline.  
>

> (b) (6) is your userid that we have on file for your pre-established  
> account. If you are a new user, you must use the link below to activate your  
> account and set a password (detailed instructions below). If the person submitting  
> the report is other than the PI, please request an account via the site's  
> "Register" tool, providing the agreement number or the PIs name. See below for more  
> detailed instructions.  
>

> ONR RPPR instructions, template for preparing the content of your report and short  
> instructions can be found at:  
> <<https://www.onr.navy.mil/Contracts-Grants/manage-grant/research-performance>>  
>

> Please direct any questions to the appropriate contact:  
>

> -- For inquiries about ONR's interim progress reporting requirement, please  
> contact

> <<mailto:onr.ncr.03R.list.annualreports@navy.mil>> .

> --For questions about the content of your report, please contact your ONR Program  
> Officer.

> --For technical questions you have logging on or using the online progress  
> reporting tool,

> please contact: <<mailto:usarmy.rtp.aro.mbx.extranet@mail.mil>> .  
>

> Sent For,  
>

> Rebecca Goolsby, Ph.D  
> Program Manager  
>

> Activation Link:  
>

> Please use this link to activate your account and set your password:  
> <<https://extranet.aro.army.mil/?e=login.a&s=177505528>>  
>



>  
>  
> Detailed Instructions:  
> 1. Go to <<https://extranet.aro.army.mil>>  
>  
> 2. If you receive a message stating that the site is not trusted or not secure,  
> then accept the security certificate by clicking on "Advanced" or "Continue"  
> depending on your browser. To install the certificate, select "View Certificate"  
> then "Install", this should prevent the message from  
> appearing again. It is safe to accept the certificate, it is issued by the  
> Department of Defense and web browsers are only preinstalled with the major  
> commercial certificates.  
>  
> 3. Click on "Login" in the upper right hand corner.  
>  
> If you have an established account:  
> 1. Enter your userid (the default for a new user or PI is email address) and  
> password. All PIs have an established account.  
>  
> 2. If you have forgotten your userid/password, please use the forgot password or  
> userid features on the "Forgot Password/Userid" tab.  
>  
> If you are a FIRST TIME USER of the ARO Extranet:  
> 1. Click on the "Register" tab.  
>  
> 2. Enter your email/userid and click "Check UserId".  
>  
> a. If you ARE NOT in the database, you will enter your information into the  
> registration form and click "Send Request". You will be informed when access has  
> been granted. Usually 1-2 business days, with no weekend support.  
>  
> b. If you are in the database you will be sent an email with a link to set your  
> password.  
>  
> After Logging in:  
> 1. Click on the "Go To Site" on the "RPPR Interim Progress Report (ONR and  
> ARO)"pod, and a list of reports will appear for each proposal for which you have  
> rights, and a report is due.  
>  
> 2. Click on the link that says, "Edit" for the desired Interim Progress Report  
> (IPR). Enter data for each tab as appropriate for your agreement by using the  
> tabs to move through the various sections of the report. Choose, "Nothing to  
> Report" for any report section that is not applicable.  
>  
> NOTE: All papers/publications/products must be entered and uploaded as part of this  
> process, before the report is complete. You can go directly to the Products from  
> the Report List, by clicking on the tab that says, "Products" This is a cumulative  
> list throughout the life of your agreement.  
>  
> 3. As you tab through the various sections of your IPR, your data will be  
> automatically saved. This is not true when entering Publications you must hit  
> "Save" before exiting each tab for a publication.  
>  
> 4. When your IPR is complete, Click on "Complete" to submit.  
>  
> If you have any problems or receive an error, send an email to:  
>

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usarmy.rtp.rdecom-aro.mbx.extranet@mail.mil or call Jim Ward at 919-549-4279/DSN  
832-4279 or Bessie Oakley 919-549-4304/DSN 832-4304.

> NOTE: This is an automated email. Please contact usarmy.rtp.aro.mail.mailer-spt@mail.mil if there are technical  
issues regarding this email.

**From:** [Kathleen Carley](#)  
**To:** [Goolsby, Rebecca L CIV USN ONR \(USA\)](#)  
**Subject:** [Non-DoD Source] Re: 2019 GOOLSBY PROGRAM REVIEW  
**Date:** Friday, August 2, 2019 2:35:52 PM

---

rebecca additions to what - I can't see anything Laura sent  
my question is not the review  
it is gnomie  
are you free?

On Fri, Aug 2, 2019 at 2:32 PM Goolsby, Rebecca L CIV USN ONR (USA)  
<[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)> wrote:

Additions to this.

Itamara Lochard ([itamara@mac.com](mailto:itamara@mac.com))

Camber Warren [tcwarren@nps.edu](mailto:tcwarren@nps.edu)

(b) (6)

Chris Kurcz ([ckurcz@i-a-i.com](mailto:ckurcz@i-a-i.com))

Govt or Related

(b) (6)

(b) (6)

Chenoweth Capt Cody D (b) (6)



(b) (6)

(b) (6)

Warren has colleagues at the wargaming initiative at NPS, I'll follow up with him separately.

VR. RG

---

**From:** (b) (6)  
**Sent:** F  
**To:** [kathleen.carley@cs.cmu.edu](mailto:kathleen.carley@cs.cmu.edu); Goolsby, Rebecca L CIV USN ONR (USA)  
<[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)>; (b) (6)  
(b) (6)  
**Subject:** FW: 2019 GOOLSBY PROGRAM REVIEW

ALCON,

Here is a preliminary list for Rebecca's 2019 Program Review. Please remind me of others who need to be included. Thanks!!

Best,

(b) (6)

Technology Deployment Manager

Office of Naval Research

875 N. Randolph

Arlington, VA 22203

Warfighter Performance Dept.

Human and Bio-engineered Systems Div.

W1025D

703.696.4053

(b) (6)

Contractor Support - Valiant Harbor, International

*"It's a Great Life if You Don't Weaken."*

- Gran





**From:** [Nitin Agarwal](#)  
**To:** [Goolsby, Rebecca CIV ONR, 341](#)  
**Cc:** [Huan Liu](#); [Kathleen Carley](#)  
**Subject:** [Non-DoD Source] Re: UARL Expenditure 5 April 2018.pdf  
**Date:** Thursday, April 5, 2018 6:59:34 PM  
**Attachments:** [signature.asc](#)  
**Importance:** High

---

Hi Rebecca,

Thanks for the alert! We have some big expenses in the coming months (e.g., over (b) (4) f server equipment in April; much higher personnel costs in summer, etc.)

Like Huan, I will also ask our research office to send invoices more frequently.

Thanks again!  
Nitin

> On Apr 5, 2018, at 6:23 PM, Goolsby, Rebecca CIV ONR, 341 <rebecca.goolsby@navy.mil> wrote:

>

> Dear all,

>

> I know that this subcontracting situation is not optimal. However, I must point out that this grant is seriously under-expended. (b) (4)s significantly low. You're coming up on a year on an effort that ends in January of 2019. At this rate you'd need to be spending about (b) (4) ER MONTH to get spend out by the time your grant ends. So far, you're not reaching that goal by a lot. Highest you've spent is (b) (4) in one month--and your average monthly spending is only (b) (4) Consider yourselves informed!

>

> Get to it! I want to see progress.

>

>

> Very respectfully,

>

> Dr. Rebecca Goolsby, Program Officer

> Office of Naval Research

> Human & Bioengineered Systems

> One Liberty Center

> 875 N. Randolph Street

> Arlington, VA 22203

> Phone: 703-588-0558

> Cell: 571-329-4763

> Email: Rebecca.Goolsby@navy.mil

>

>

>

>

>

> <UARL Expenditure 5 April 2018.pdf>

**From:** [Huan Liu](#)  
**To:** [Goolsby, Rebecca CIV ONR, 341](#)  
**Cc:** [Kathleen Carley](#); [Nitin Agarwal](#)  
**Subject:** [Non-DoD Source] Re: UARL Expenditure 5 April 2018.pdf  
**Date:** Thursday, April 5, 2018 6:31:12 PM

---

Rebecca,

I will let our grants office know and ask them to send the invoice more frequently if possible.  
We are spending.

Thanks,

Huan  
<http://www.public.asu.edu/~huanliu>

On Thu, Apr 5, 2018 at 3:23 PM, Goolsby, Rebecca CIV ONR, 341  
<[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)> wrote:

Dear all,

I know that this subcontracting situation is not optimal. However, I must point out that this grant is seriously under-expended. (b) (4) is significantly low. You're coming up on a year on an effort that ends in January of 2019. At this rate you'd need to be spending about (b) (4) PER MONTH to get spend out by the time your grant ends. So far, you're not reaching that goal by a lot. The highest you've spent is (b) (4) in one month--and your average monthly spending is only (b) (4) Consider yourselves informed!

Get to it! I want to see progress.

Very respectfully,

Dr. Rebecca Goolsby, Program Officer  
Office of Naval Research  
Human & Bioengineered Systems  
One Liberty Center  
875 N. Randolph Street  
Arlington, VA 22203  
Phone: 703-588-0558  
Cell: 571-329-4763  
Email: [Rebecca.Goolsby@navy.mil](mailto:Rebecca.Goolsby@navy.mil)

**From:** [Nitin Agarwal](#)  
**To:** [Huan Liu](#); [Kathleen Carley](#)  
**Cc:** [Goolsby, Rebecca CIV ONR, 341](#)  
**Subject:** [Non-DoD Source] Spending rates  
**Date:** Thursday, August 2, 2018 10:35:56 AM  
**Attachments:** [signature.asc](#)

---

Hi Kathleen and Huan,

Here are the spending rates so far on your sub contracts:

ASU: \$(b) (4) (invoice period = 1-Jan-2018 to 30-April-2018) = Spending rate OK!

CMU: (b) (4) (invoice period = 1-Jan-2018 to 30-June-2018) = Spending rate needs to increase!

Lets discuss how we can up the spending rates so that our ability to seek funding in the next FY is not affected. We are anticipating another round of congressional funding through Sen. Boozman.

Thanks,  
Nitin





reduce risk today for  
resilience tomorrow

# QUOTE

## R3 Networks LLC

Brian Steckler,  
R3 Networks, LLC  
PO Box 221113, Carmel, CA 93923  
Phone: +1.831.402.1584  
[Brian.steckler@r3nets.com](mailto:Brian.steckler@r3nets.com)  
<http://www.r3nets.com>

<b>Customer:</b> Kathleen Carley Netanomics <a href="mailto:kathleen.carley@cs.cmu.edu">kathleen.carley@cs.cmu.edu</a>	<b>Quote No:</b>	R3-12181
	<b>Date:</b>	January 8 <sup>th</sup> 2019
	<b>Page:</b>	1 of 3
	<b>Terms:</b>	Quote valid for 30 days
	<b>Currency:</b>	USD unless stated

1. Server - Operational – HP – Full Spec					
Line	Description	Model	Qty	Price per unit	Total
1	HP Proliant DL360 Gen 10 - 8 core 16 Gb	DL360 – Gen10	(b) (4)	(b) (4)	(b) (4)
2	HP – Server RAM 32Gb				
3	HP - Server HD - 2 TB				
	<b>Note – No Operating System</b>				
<b>Sub Total :</b>					

2. Server – Development – HP – Full Spec					
Line	Description	Model	Qty	Price per unit	Total
1	HP Proliant DL360 Gen 10 - 8 core 16 Gb	DL360 – Gen10	(b) (4)		
2	HP – Server RAM 32Gb				
3	HP - Server HD - 2 TB				
	<b>Note – No Operating System</b>				
<b>Sub Total :</b>					(b) (4)

<b>Customer:</b> <b>Customer:</b> Kathleen Carley Netanomics <a href="mailto:kathleen.carley@cs.cmu.edu">kathleen.carley@cs.cmu.edu</a>	<b>Quote No:</b>	R3-12181
	<b>Date:</b>	January 8 <sup>th</sup> 2019
	<b>Page:</b>	2 of 3
	<b>Terms:</b>	Quote valid for 30 days
	<b>Currency:</b>	USD unless stated

## 1. Other Equipment

Line	Description	Model	Qty	Price per unit	Total
1	Wifi Access Points – Ruckus	R610		(b) (4)	
2	4G LTE Router – Cradlepoint	AER2200			
3	4G LTE Modem - Cradlepoint	MC400			
4	4G – LTE Antennas				
5	Security Device – Cisco Meraki	MX67			
6	Server/Network Equipment case	CP			
7	POE Switch – Ruckus ICX7150-12 port	ICX7150			
8	Antenna- Wifi – cable case – Large Peli Type				
9	Case – Custom Foam Insert				
10	Misc Cables and Mounts				
<b>Sub Total :</b>					(b) (4)

## 2. Laptop Box

Line	Description	Model	Qty	Price per unit	Total
1	Laptop Box			(b) (4)	
2	Laptop Box – Interior – Custom foam				
3	Laptop Box – Laptops - i5 8Gb, 256 Gb SSD - Dell Vostro 13 5000				
	<b>**Laptops come with Win 10 pro ..NO OTHER software included**</b>				
<b>Sub Total :</b>					(b) (4)

<b>Customer:</b> Kathleen Carley Netanomics <a href="mailto:kathleen.carley@cs.cmu.edu">kathleen.carley@cs.cmu.edu</a>	<b>Quote No:</b>	R3-12181
	<b>Date:</b>	January 8 <sup>th</sup> 2019
	<b>Page:</b>	3 of 3
	<b>Terms:</b>	Quote valid for 30 days
	<b>Currency:</b>	USD unless stated

3. Yearly Licence Costs (Yearly costs for management– Note: Multi year options available, reduce cost significantly)					
Line	Description	Model	Qty	Price per unit	Total
1	Cisco Meraki - MX67 – Advanced security – 1 Year licence	MX67		(b) (4)	(b) (4)
2	Ruckus – Cloud Manager – 1 Year licence	R610		(b) (4)	(b) (4)
3	Cradlepoint – Enterprise cloud manager – 1 Year licence			(b) (4)	(b) (4)
Sub Total :					(b) (4)

4. R3 Labour					
Line	Description	Model	Qty	Price per unit	Total
1	Design – CAD – for Foam and Mounts – Days (only on prototype)			(b) (4)	(b) (4)
2	Assembly and programming - Days (Day rate (b) (4) per day)			(b) (4)	(b) (4)
3	Travel, Delivery and 1 Day on-site training			(b) (4)	(b) (4)
Sub Total :					(b) (4)

Quote Summary			
Line	Description	H/W Totals	Total
1	Server - Operational – HP – Full Spec	(b) (4)	(b) (4)
2	Server - Development – HP – Full Spec		
3	Other Equipment		
4	Laptop Box		
	Hardware Total		
	Hardware Total inc. R3 10% recovery		
5	Yearly licence costs		
6	Labour, travel, delivery and training		
7	Shipping (shipping all equip to integration site)		
Sub Total :			(b) (4)
Tax on equipment est 10%			(b) (4)
Total			(b) (4)



**From:** (b) (6)  
**To:** (b) (6) [Goolsby, Rebecca CIV ONR, 341](#)  
**Cc:** (b) (6)  
**Subject:** RE: Good morning TJ 18 team  
**Date:** Monday, April 30, 2018 3:29:30 PM

---

(b) (6) Rebecca,

I agree with the Bruce on the importance of change detection, but would extend that to consider include both content (word, discussion/topic) and pattern based change detection (e.g., integrative complexity, idea density) as the latter really provide important (leading) cues regarding significant shifts in group/network/intergroup/network dynamics. Also trajectories in affect are very informative. Perhaps just "change detection: affect, content (keyword, topic) and psycholinguistic patterns"?

Laurie

-----Original Message-----

**From:** (b) (6)  
**Sent:** M  
**To:** Rebecca Goolsby Ph.D <rebecca.goolsby@navy.mil>

(b) (6)

**Subject:** [Non-DoD Source] RE: Good morning TJ 18 team

Rebecca,

Great thus far.

To add:

Audience analysis

-- analysis of prominent influencers by topic area

Discourse and Narrative Analysis

-- Authentic Chatter baselining

-- word and discussion change detection using time series analysis

Cheers

Bruce

From: (b) (6)  
Sent: April-30-18 12:00 PM  
To: Rebecca Goolsby Ph.D

(b) (6)

Subject: Re: Good morning TJ 18 team  
Importance: High

Hi Rebecca,

This looks very well-structured.

A few thoughts:

1. Can we add blogs to the cross-platform analysis? We should be able to put the NEW Blogtrackers (the one you have seen) to test by mid-summer.
2. Should we have a media artifact repository/catalog as exemplars for memes, proto-memes, narratives, etc. used/reused/repurposed in the dis/information campaigns?

Thanks,

(b) (6)

---

<http://ualr.edu/nxagarwal/>

On Apr 30, 2018, at 9:59 AM, Goolsby, Rebecca CIV ONR, 341 <rebecca.goolsby@navy.mil  
<<mailto:rebecca.goolsby@navy.mil>> > wrote:

Morning all,

I'm in the process of getting ready for TJ18. Andreas Baur over at NATO ACT is wanting to see A PLAN. I have to deliver this PLAN on Tuesday evening, before a planned teleconference with him. I have to communicate to him everything we're bringing to the table. I'll be working today on a PLAN which is actually a sketch of the capabilities and players who will be involved in the experimentation being channeled into TJ18 via NATO OPEX.

There are some caveats here. Andreas wants everything to be spelled out and all the players identified. I am going to pitch the notion that there will be core players and periphery players -- we all know that once this gets out there, people will be bugging to join the group (like the C2IE folks) but also I'd like to be able to add additional players from NATO nations who will be hanging back due to lack of resources, problems of getting permissions, and so forth. I want to keep the door open for NATO research group participants.

My initial plan is to group by PLAYERS, then by HIGH LEVEL OBJECTIVES, then CAPABILITIES and finally TOOLS.

High Level Objectives I'd like to constrain to these five:

- \* Audience Analysis
- \* Discourse and Narrative Analysis
- \* Manipulation Detection and Analysis
- \* Impact Analysis
- \* Cross Platform Analysis

But am I missing something? Are there better objectives?

Below these four objectives, there are Capabilities. Here are some examples:

#### Audience Analysis

- Audiences Across Platforms
- Audience Analysis By Language
- (Not sure what else to put here)

#### Discourse and Narrative Analysis

- Theme and Topic Detection
- Sentiment / Emotion Analysis of Discourses and Narratives
- Other candidates?

#### Manipulation Detection

- Echo Chamber Detection and Analysis
- Bot Detection and Analysis
- Discourse Tactics (The Four Ds, Discourse Suppression, Reply Trolling, and other Tactics of Bots and Information Adversaries)

#### Impact Analysis

- Analysis of Blue Force Impact
- Analysis of Red Force Impact

Cross-Platform Analysis (Analysis Techniques for Platforms Other than

Twitter)

- Facebook Analysis
- Youtube Analysis
- VK Analysis

I need your thoughts and comments.

More soon.

Very respectfully,

Dr. Rebecca Goolsby, Program Officer  
Office of Naval Research  
Human & Bioengineered Systems  
One Liberty Center  
875 N. Randolph Street  
Arlington, VA 22203  
Phone: 703-588-0558

(b) (6)

Email: Rebecca.Goolsby@navy.mil <<mailto:Rebecca.Goolsby@navy.mil>>



**From:** (b) (6)  
**To:** Goolsby, Rebecca CIV ONR, 341 (b) (6)  
**Cc:** (b) (6)  
**Subject:** RE: Good morning TJ 18 team  
**Date:** Monday, April 30, 2018 1:59:09 PM

---

Rebecca,

I agree it looks great and I concur with the comments by Bruce and Ritu.

Liz

-----Original Message-----

From: Goolsby, Rebecca CIV ONR, 341 [<mailto:rebecca.goolsby@navy.mil>]  
Sent: Monday, April 30, 2018 10:59 AM

(b) (6)

Subject: Good morning TJ 18 team  
Importance: High

Morning all,

I'm in the process of getting ready for TJ18. Andreas Baur over at NATO ACT is wanting to see A PLAN. I have to deliver this PLAN on Tuesday evening, before a planned teleconference with him. I have to communicate to him everything we're bringing to the table. I'll be working today on a PLAN which is actually a sketch of the capabilities and players who will be involve in the experimentation being channeled into TJ18 via NATO OPEX.

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I need your thoughts and comments.

More soon.

Very respectfully,

Dr. Rebecca Goolsby, Program Officer  
Office of Naval Research  
Human & Bioengineered Systems  
One Liberty Center  
875 N. Randolph Street  
Arlington, VA 22203  
Phone: 703-588-0558

(b) (6)

Email: Rebecca.Goolsby@navy.mil

**From:** [Biggerstaff, Laura L CTR \(US\)](#)  
**To:** [Watts, Patricia](#); [Goolsby, Rebecca L CIV USN CNR ARLINGTON VA \(USA\)](#); (b) (6)  
**Cc:** [nxagarwal@Ualr.edu](#); [Kathleen Carley](#)  
**Subject:** RE: MURI (Multi University Research Initiative review)  
**Date:** Wednesday, July 24, 2019 12:58:04 PM  
**Attachments:** [image001.png](#)  
**Importance:** High

---

Hi Patricia,

Do you still need an escort into the building? Standing by.

Best,  
Laura Biggerstaff, MS

Technology Deployment Manager  
Office of Naval Research  
875 N. Randolph  
Arlington, VA 22203  
Warfighter Performance Dept.  
Human and Bio-engineered Systems Div.  
W1025D  
703.696.4053  
[Laura.biggerstaff.ctr@navy.mil](mailto:Laura.biggerstaff.ctr@navy.mil)

Contractor Support - Valiant Harbor, International

*"It's a Great Life if You Don't Weaken."  
- Gran*

---

**From:** (b) (6)  
**Sent:** Tuesday, July 23, 2019 12:50 PM  
**To:** Biggerstaff, Laura L CTR (US) <[laura.biggerstaff.ctr@navy.mil](mailto:laura.biggerstaff.ctr@navy.mil)>; Goolsby, Rebecca L CIV USN ONR (USA) <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)>; (b) (6)  
(b) (6)  
**Cc:** [nxagarwal@Ualr.edu](#); [Kathleen Carley](#) <[kathleen.carley@cs.cmu.edu](mailto:kathleen.carley@cs.cmu.edu)>  
**Subject:** [Non-DoD Source] RE: MURI (Multi University Research Initiative review)

Laura,

I believe it will only be 2 of us. We will confirm.

Thank you.

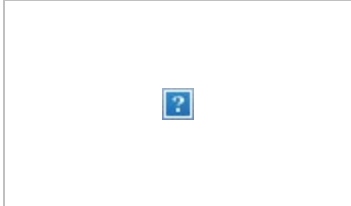
v/r

(b) (6)

Chief, Technology Engagements  
Global Engagement Center

(b) (6)

VISIT US @ <https://www.state.gov/the-global-engagement-centers-technology-engagement-team/>



---

**From:** Biggerstaff, Laura L CTR (US) <laura.biggerstaff.ctr@navy.mil>

**Sent:** Tuesday, July 23, 2019 12:47 PM

**To:** Goolsby, Rebecca L CIV USN ONR (USA) <rebecca.goolsby@navy.mil>; (b) (6)

(b) (6)

**Cc:** nxagarwal@Ualr.edu; Kathleen Carley <kathleen.carley@cs.cmu.edu>

**Subject:** RE: MURI (Multi University Research Initiative review

Alcon,

I can escort 3 people at a time (ONR rules) and am happy to help. Will be ready and standing by at 1200.

Best,

Laura Biggerstaff, MS

Technology Deployment Manager  
Office of Naval Research  
875 N. Randolph  
Arlington, VA 22203  
Warfighter Performance Dept.  
Human and Bio-engineered Systems Div.  
W1025D  
703.696.4053  
[Laura.biggerstaff.ctr@navy.mil](mailto:Laura.biggerstaff.ctr@navy.mil)

Contractor Support - Valiant Harbor, International



*"It's a Great Life if You Don't Weaken."*  
- Gran

---

**From:** Goolsby, Rebecca L CIV USN ONR (USA) <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)>  
**Sent:** Tuesday, July 23, 2019 12:38 PM  
**To:** Watts, Patricia <[WattsP@state.gov](mailto:WattsP@state.gov)>; Olson, Hans F <[OlsonHF@state.gov](mailto:OlsonHF@state.gov)>; Kass, Miles G <[KassMG@state.gov](mailto:KassMG@state.gov)>; Maddox, Justin D <[MaddoxJD@state.gov](mailto:MaddoxJD@state.gov)>  
**Cc:** Biggerstaff, Laura L CTR (US) <[laura.biggerstaff.ctr@navy.mil](mailto:laura.biggerstaff.ctr@navy.mil)>; [nxagarwal@Ualr.edu](mailto:nxagarwal@Ualr.edu); Kathleen Carley <[kathleen.carley@cs.cmu.edu](mailto:kathleen.carley@cs.cmu.edu)>  
**Subject:** RE: MURI (Multi University Research Initiative review

(b) (6)

Ah! Thank you for pointing this out!  
The address is:

One Liberty Center  
875 N. Randolph Street  
Arlington, VA 22203-1995

My phone is (b) (6) Ms. Biggerstaff (my back up) is 703-696-5043. She can help us get the needed escorts.

VR, Rebecca

---

**From:** (b) (6)  
**Sent:** Tuesday, July 23, 2019 12:19 PM  
**To:** Goolsby, Rebecca L CIV USN ONR (USA) <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)>; Olson, Hans F

(b) (6)

**Cc:** Biggerstaff, Laura L CTR (US) <[laura.biggerstaff.ctr@navy.mil](mailto:laura.biggerstaff.ctr@navy.mil)>  
**Subject:** [Non-DoD Source] RE: MURI (Multi University Research Initiative review

Rebecca,

Thank you for the invite and I will come over. Actually I was meeting Nitin after your meeting but this would be good insights. Please provide the physical address for ONR. Also, we do not have CACs (excluding Miles).  
See you tomorrow.

v/r

(b) (6)

(b) (6)

Chief, Technology Engagements  
Global Engagement Center

(b) (6)

VISIT US @ <https://www.state.gov/the-global-engagement-centers-technology-engagement-team/>



---

**From:** Goolsby, Rebecca L CIV USN ONR (USA) <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)>

**Sent:** Tuesday, July 23, 2019 12:15 PM

**To:** (b) (6)

(b) (6)

**Cc:** Biggerstaff, Laura L CTR (US) <[laura.biggerstaff.ctr@navy.mil](mailto:laura.biggerstaff.ctr@navy.mil)>

**Subject:** MURI (Multi University Research Initiative review

Dear all,

Tomorrow there will be a review of a grant involving Nitin Agarwal and Kathleen Carley that I think will be of interest to you. It's about social media and factionalism with an international perspective. This group will be discussing their research on social influence and social media.

The meeting is here at ONR in room 1103 from 1 to 3pm. Your CAC card should be sufficient to get you a visitor's pass into the building. I'm not certain if you'll need an escort, so please let me know that you are coming.

I would be available for lunch if people are interested. Restaurants fill up around here, so please let me know and I'll make a reservation at Ted's Bulletin at the Ballston Mall.

My phone is (b) (6)

Rebecca Goolsby, Ph.D.  
Program Officer  
Office of Naval Research

**From:** [Biggerstaff, Laura L CTR \(US\)](#)  
**To:** [Goolsby, Rebecca L CIV USN CNR ARLINGTON VA \(USA\)](#); (b) (6)  
**Cc:** [nxagarwal@Ualr.edu](mailto:nxagarwal@Ualr.edu); [Kathleen Carley](#)  
**Subject:** RE: MURI (Multi University Research Initiative review)  
**Date:** Tuesday, July 23, 2019 12:46:47 PM  
**Attachments:** [image001.png](#)

---

Alcon,

I can escort 3 people at a time (ONR rules) and am happy to help. Will be ready and standing by at 1200.

Best,  
Laura Biggerstaff, MS

Technology Deployment Manager  
Office of Naval Research  
875 N. Randolph  
Arlington, VA 22203  
Warfighter Performance Dept.  
Human and Bio-engineered Systems Div.  
W1025D  
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[Laura.biggerstaff.ctr@navy.mil](mailto:Laura.biggerstaff.ctr@navy.mil)

Contractor Support - Valiant Harbor, International

*"It's a Great Life if You Don't Weaken."  
- Gran*

---

**From:** Goolsby, Rebecca L CIV USN ONR (USA) <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)>

**Sent:** Tuesday, July 23, 2019 12:38 PM

**To:** (b) (6)

(b) (6)

**Cc:** Biggerstaff, Laura L CTR (US) <[laura.biggerstaff.ctr@navy.mil](mailto:laura.biggerstaff.ctr@navy.mil)>; [nxagarwal@Ualr.edu](mailto:nxagarwal@Ualr.edu); Kathleen Carley <[kathleen.carley@cs.cmu.edu](mailto:kathleen.carley@cs.cmu.edu)>

**Subject:** RE: MURI (Multi University Research Initiative review)

(b) (6)

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One Liberty Center  
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Arlington, VA 22203-1995

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VR, Rebecca

---

**From:** (b) (6)  
**Sent:** Tuesday, July 23, 2019 12:19 PM  
**To:** Goolsby, Rebecca L CIV USN ONR (USA) <rebecca.goolsby@navy.mil>; (b) (6)  
(b) (6)  
**Cc:** Biggerstaff, Laura L CTR (US) <laura.biggerstaff.ctr@navy.mil>  
**Subject:** [Non-DoD Source] RE: MURI (Multi University Research Initiative review

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See you tomorrow.

v/r

(b) (6)

Chief, Technology Engagements  
Global Engagement Center

(b) (6)

**VISIT US @** <https://www.state.gov/the-global-engagement-centers-technology-engagement-team/>



---

**From:** Goolsby, Rebecca L CIV USN ONR (USA) <rebecca.goolsby@navy.mil>  
**Sent:** Tuesday, July 23, 2019 12:15 PM  
**To:** (b) (6)



(b) (6)

**Cc:** Biggerstaff, Laura L CTR (US) <laura.biggerstaff.ctr@navy.mil>

**Subject:** MURI (Multi University Research Initiative review

Dear all,

Tomorrow there will be a review of a grant involving Nitin Agarwal and Kathleen Carley that I think will be of interest to you. It's about social media and factionalism with an international perspective. This group will be discussing their research on social influence and social media.

The meeting is here at ONR in room 1103 from 1 to 3pm. Your CAC card should be sufficient to get you a visitor's pass into the building. I'm not certain if you'll need an escort, so please let me know that you are coming.

I would be available for lunch if people are interested. Restaurants fill up around here, so please let me know and I'll make a reservation at Ted's Bulletin at the Ballston Mall.

My phone is (b) (6)

Rebecca Goolsby, Ph.D.

Program Officer

Office of Naval Research

**From:** [Nitin Agarwal](#)  
**To:** [Goolsby, Rebecca L CIV USN CNR ARLINGTON VA \(USA\)](#)  
**Subject:** Re: [Non-DoD Source] Re: Funding issues and concerns  
**Date:** Monday, January 29, 2018 11:50:27 AM  
**Attachments:** [signature.asc](#)  
**Importance:** High

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Hi Rebecca,

ASU received the money in December.

CMU's sub award is in the process. Last week CMU received their sub award agreement.

The delay is 2-folds -

1. UALR's ORSP staff had a (b) (6) and then we were snowed in.
2. I believe Kathleen was not available in Dec because of the (b) (6) Huan was proactive in pushing ASU's ORSP to get the sub award set up before everyone left

This is in the works now and we expect it to be set up very soon.

Thanks,  
Nitin

> On Jan 29, 2018, at 10:17 AM, Goolsby, Rebecca CIV ONR, 341 <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)> wrote:

>

> Nitin, What is the hang up here? Let's talk this afternoon. We have to get that money to the performing institutions right away! VR, Rebecca

>

> -----Original Message-----

> From: Kathleen Carley [<mailto:kathleen.carley@cs.cmu.edu>]

> Sent: Sunday, January 28, 2018 10:56 AM

> To: Goolsby, Rebecca CIV ONR, 341

> Subject: [Non-DoD Source] Re: Funding issues and concerns

>

> I will spend it when it gets to CMU. NONE of it has gotten to CMU yet.

>

> On Fri, Dec 15, 2017 at 2:34 PM, Goolsby, Rebecca CIV ONR, 341 <[rebecca.goolsby@navy.mil](mailto:rebecca.goolsby@navy.mil)> wrote:

>

>

> Dear Nitin, Kathleen and Huan,

>

> Good afternoon and Happy Holidays!

>

> I have here in my hand the funding profile for N0001417-2605. The funding arrived in August to UARL -- which we confirmed on 31 August. I only have seen \$36K of expenditures, which doesn't even touch the original funds I sent earlier that year. Folks, you need to spend better. :D Kathleen and Huan seem to think that the money is not yet at UARL, but in fact, it is and has been there since 1 September. So, let's figure this all and get you guys off on spending these funds efficiently and effectively ASAP.

>

> Let's also get ready for doing something in the Spring. We will need to have a pow-wow in early January with Eric Wallace about whether they are going to want to support a workshop or experiment or what have you.

>

> The LOE was a resounding success; another effort that brings back the Australians and the Canadians to

prepare for Trident Juncture 18 might be a good idea. I still don't know what NATO ACT wants in terms of our participation in the second LOE, which they want to be all about "blue force messaging." I have some ideas on this that are about half-formed at the moment that involve understanding how to (1) figure out the Twitter algorithms so as to maximize message saturation specifically to followers; (2) figuring out how to understand and "game" all of Twitter's game mechanics (reply, retweet, like, @mention, retweet with elaboration).

>

> Once again, thank you all for your amazing work and support of the NATO LOE. You are all freaking tremendous scholars at the top of this field.

>

> Now, SPEND! :D

>

> With great appreciation,

>

>

> Very respectfully,

>

> Dr. Rebecca Goolsby, Program Officer

> Office of Naval Research

> Human & Bioengineered Systems

> One Liberty Center

> 875 N. Randolph Street

> Arlington, VA 22203

> Phone: 703-588-0558

> Cell: 571-329-4763

> Email: Rebecca.Goolsby@navy.mil

>

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>

>

>

>

>

>

**From:** (b) (6)  
**To:**  
**Cc:** [Goolsby, Rebecca CIV ONR, 341](#)  
**Subject:** RE: ONR FY18 Program Review  
**Date:** Wednesday, April 25, 2018 3:14:34 PM

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Hi Michael,

Has an agenda been published or emailed out for this event yet? I would like to attend but need a little more information to submit for TDY request to my command.

Thanks!

V/R

(b) (6)

(b) (6)

-----Original Message-----

**From:** (b) (6)  
**Sent:** Tuesday, April 3, 2018 12:57 PM  
**To:** (b) (6)  
(US)  
**Cc:** Goolsby, Rebecca L CIV USN ONR (US); nxagarwal@ualr.edu  
**Subject:** FW: ONR FY18 Program Review

Good afternoon!

I have added you to the ONR FY18 Program Review as requested by Nitin, and on behalf of Dr. Goolsby. Below you will find the latest information as we approach the review. As additional information is made available I will have you included on future distributions.

v/r  
Mike

(b) (6)

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**From:** (b) (6)  
**Sent:** Thursday, March 22, 2018 11:27 AM  
**To:** Goolsby, Rebecca CIV ONR, 341; (b) (6)



vs@umiacs.umd.edu; (b) (6); cervone@psu.edu; (b) (6)  
kathleen.carley@cs.cmu.edu; nxagarwal@ualr.edu; huan.liu@asu.edu; vincent.mancuso@ll.mit.edu;  
(b) (6) itamara.lochard@gc.ndu.edu; (b) (6)  
(b) (6)  
esantos2@iit.edu; cpulice@umiacs.umd.edu; (b) (6)  
(b) (6)  
(b) (6) ilochard@c4i.gmu.edu; kstarbi@uw.edu;  
markaf@fiu.edu; (b) (6) (b) (6) jkorah3@iit.edu; (b) (6)  
(b) (6)  
Subject: ONR FY18 Program Review

Program Review Attendees,

We are excited to host you at Space and Naval Warfare Systems Center Atlantic (SPAWARSYSCEN Atlantic) for Dr. Goolsby's FY18 Program Review. This email contains the details and logistics for your scheduled arrival on May 14, in support of the review which will occur May 15-17, 2018. A final agenda will be sent out in the coming weeks as titles/topics of your presentations are provided to Dr. Goolsby, at a future date TBD. I apologize in advance for the wall of text which follows.

#### LODGING

Lodging has been arranged at the Embassy Suites located downtown Charleston at the government per diem rates. The rooms have been made available beginning May 13 to May 18 to account for any of you wishing to enjoy Charleston by coming a little early, or leaving late.

Your web page address is: [http://embassysuites.hilton.com/en/es/groups/personalized/C/CHSESES-ONR-20180513/index.jhtml?WT.mc\\_id=POG](http://embassysuites.hilton.com/en/es/groups/personalized/C/CHSESES-ONR-20180513/index.jhtml?WT.mc_id=POG)

Group Name: ONR Program Review

Group Code: ONR

Check-in: 13-MAY-2018

Check-out: 18-MAY-2018

Hotel Name: Embassy Suites by Hilton Charleston Historic  
District<<http://embassysuites.hilton.com/en/es/hotels/index.jhtml?ctyhocn=CHSESES>>

Hotel Address: 337 Meeting Street

Charleston, South Carolina

29403

Phone Number: 8437236900

PROGRAM REVIEW LOCATION(S)

The first two days of Program Review will be held off base this year at one of our industry partners location immediately off base. Scientific Research Corporation (SRC) has agreed to host us where we should anticipate better accommodations to include better VTC capabilities for those who cannot attention in person, as well as a guest-WiFi. You will not need a CAC to enter the facility, but they will require a form of government issued ID with picture (drivers licenses, etc) at check in. SRC is located at 1101 Remount Road, Suite 500, North Charleston, SC 29406.

The final day of the Program Review will be held on base at SPAWARSYSCEN within the Multidisciplinary Research Center of Building 3147. I anticipate the third day will be used for break-out sessions and to follow-up on previous discussions during the week and for some of you this may be optional, at the discretion of Dr. Goolsby. The address is 1 Innovation Dr, Hanahan, SC 29410 (please refer attached base map). Directions for arrival are separated into CAC holders and non-CAC holders below. Be aware that traffic can back up in the morning on Remount Rd depending on port activity and shipments. If you do not have a CAC and plan to drive onto base for the Program Review, you must have two forms of identification (driver's license and passport) prepared for the Pass Office. Those of you who attended last year will still have active visit requests and will not require anything new to be submitted. If this is your first time visiting, we will need to submit visit requests for the 17th; please email me separately and Dr. Batson and I will assist you.

## SECURITY and TRANSPORTATION

Your laptops and cell phones are fine to bring on base, but there is no internet access, and no jump drives or other USB storage are allowed on SPAWARSYSCEN Atlantic computers. Photographs and video are not allowed while on the Naval Weapons Station.

### CAC Holders:

- \* Use your CAC to enter the Naval Weapons Station at Gate 4.
- \* Meet at the front of Bldg 3147 at 9:00am. Someone will be waiting to greet you, and your badges will be provided upon arrival.
- \* You may park in any unreserved parking spot at Bldg 3147; overflow parking is available across Innovation Drive in front of Bldg 3147.

Non-CAC Holders: The following is highly suggested due to typical morning wait times of 30-60 minutes at the Pass Office.

- \* Meet outside the base in the parking lot of Remount Business Center at 8:30am.
- \* Enter down the drive between Portside Baptist Church (1179 Remount Rd, North Charleston, SC, 29406) and Remount Business Center (1101 Remount Rd, North Charleston, SC, 29406). There will be a dark blue van half way down the drive. Park in the Business Center lot on your left.
- \* You will be driven onto the Naval Weapons Station and taken to Bldg 3147 for badge pick up at 9:00am. An

opportunity to get your gate pass and vehicle will be provided during an extended break, or lunch, when the Pass Office is not as busy. Two forms of identification will be required for a gate pass.

\* All non-CAC holders, send me an email to let me know if you plan to be picked up from Remount Business Center in the morning. The van will not wait for you if we do not know to wait for you.

Again, I apologize for the above wall of text. As we get closer we will provide dates to submit presentations to Dr. Goolsby and handle any logistical challenges that may come up. I look forward to see you soon!

v/r

Mike

(b) (6)

**From:** (b) (6)  
**To:** vs@umiacs.umd.edu; (b) (6);  
vincent.mancuso@ll.mit.edu; (b) (6); itamara.lochard@gc.ndu.edu; (b) (6)  
(b) (6)  
**Cc:** Goolsby, Rebecca CIV ONR, 341: (b) (6)  
(b) (6)  
**Subject:** RE: ONR Program Review in Charleston - Action Required  
**Date:** Friday, May 26, 2017 11:13:00 AM  
**Attachments:** JBC Base Access Form74.pdf

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Program Review Attendees,

If you are in the "To" line of this email, this is a reminder that I am missing some or all of your required information to grant base and facility access for the Program Review.

The forms, scans, and other requested information should be emailed to me ASAP, but **no later than May 31, 2017 due to processing time**. Program Review admittance requires the submission of this information.

I need a of your completed **Form 74** (attached, both pages required), legible color scans of your **driver's license** and **SS card** (see additional information in email below), and the **following information** for badging:

1. Full name
2. Citizenship (US or otherwise)
3. Whether or not you have a CAC (if so, please provide EDIPI)
4. Whether or not you are a dual citizen (and countries involved)
5. Whether or not you are a foreign national (and country involved)
6. Name of your company/organization and your role

If you have an active CAC, you will only need to submit the 6 points of information above (no Form 74 or scans) and your EDIPI number. You may refer to the email below for additional guidelines on the Form 74.

Let me know if you have any questions.

Thank you,

(b) (6)

(b) (6)

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**From:** (b) (6)  
**Sent:** Wednesday, May 03, 2017 12:08 PM  
**To:** vs@umiacs.umd.edu; (b) (6); cervone@psu.edu; (b) (6);  
(b) (6); kathleen.carley@cs.cmu.edu; nxagarwal@ualr.edu; huan.liu@asu.edu;  
vincent.mancuso@ll.mit.edu; (b) (6); (b) (6);  
(b) (6); itamara.lochard@gc.ndu.edu; (b) (6);  
(b) (6); esantos2@iit.edu; cpulice@umiacs.umd.edu  
**Cc:** Goolsby, Rebecca CIV ONR, (b) (6);  
(b) (6); (b) (6); (b) (6)  
**Subject:** ONR Program Review in Charleston - Action Required

All,

**BLUF:** Additional details about the Program Review on June 13-14 in Charleston, SC are provided. Individuals on the "To" line of this email need to fill out the attached Form 74 (unless you have a CAC) and provide requested information for base and facility access.

The Program Review will be held at Space and Naval Warfare Systems Center



Atlantic (SSC Atlantic) on the Naval Weapons Station (NWS) of Joint Base Charleston in North Charleston, SC on June 13-14. Attached are two visitor maps of the NWS for your reference. The address 1100 Remount Rd, North Charleston, SC in your GPS will get you close to the gate for entry. Please do not openly distribute the maps.

We are tentatively looking at a 0900 start on June 13 to get everyone their badges and base access. More details on the agenda and schedule will come in the near future. I am trying to block off rooms for attendees at a Charleston hotel. I will let you know if/when I am able to confirm availability and have a reservation code to send out for booking at the government rate.

There is some required paperwork for the Air Force to grant base access. **If you are on the "To" line of this email, the attached Form 74 must be filled out and emailed/faxed/mailed with a copy of your driver's license and a copy of your Social Security card to one of the addresses below no later than May 19.** Please let me know when you have sent your information. **Note: If you have a CAC, you do not need to fill out the Form 74; it is only for non-CAC holders.**

#### Mailed Submissions

(b) (6)

#### Faxed Submissions

(b) (6)

#### Scanned/Emailed Submissions

(b) (6)

A few clarification points about the Form 74 from previous experiences.

- Fill in all of the highlighted fields according to the directions on page 2. Some of the fields have already been filled in with details about your visit.
- Do not omit your SSN, DOB and Place of Birth, and driver's license number and state of issue from the top.
- If you are not a US citizen, then make a note on line #16.
- A military ID is an active/retired ID card, not a CAC.
- If you do not have an employment supervisor to sign line #24, leave it blank.
- You do need to sign line #23, provide a copy of your Driver's License or state ID card, and provide a copy of your Social Security card. Submit all information with appropriate security measures. Do not forget to initial in the space on page 2 at line #20.
- Disregard the "original ink" remark. Once I receive your signed paperwork and required copies, I will sign and submit to our security office.

I also need to submit a list of visitor names to SSC Atlantic for facility access. **If you are on the "To" line, reply to this email by (not reply all, just to me is fine) with the following information by May 19.** **Note: This is an action for everyone in the "To" line.**

1. Full name
2. Citizenship (US or otherwise)
3. Whether or not you have a CAC (if so, please provide EDIPI)
4. Whether or not you are a dual citizen (and countries involved)
5. Whether or not you are a foreign national (and country involved)
6. Name of your company/organization and your role

**If you are a foreign national, provide scanned copies of your driver's license, visas, and resident alien cards in your reply.** When you arrive, you will need a passport or government issued picture identification card (e.g. driver's license) to be badged. Be sure to have that on your person upon arrival.

Let me know if you have any additional questions. More information on the schedule and agenda will follow in the coming weeks. We look forward to

seeing you all next month in Charleston!

Best,

(b) (6)